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Illinois Power Generating Company

Date
January 31, 2024

Project No.
1940103649-013

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PRIMARY ASH POND

NEWTON POWER PLANT

NEWTON, ILLINOIS

CCR UNIT 501

RAMBOLL Bright ideas. Sustainable change.

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT PRIMARY ASH POND

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ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
40 C.F.R.	Title 40 of the Code of Federal Regulations
A2	Quarter 1, 2023 Assessment Monitoring sampling event
A2R	Quarter 2, 2023 Assessment Monitoring sampling event
A2D	Quarter 3, 2023 Assessment Monitoring sampling event
A2DR	Quarter 4, 2023 Assessment Monitoring sampling event
ASD	Alternative Source Demonstration
CCR	coal combustion residuals
CMA	Corrective Measures Assessment
GWPS	groundwater protection standard
IEPA	Illinois Environmental Protection Agency
NA	not applicable
NPP	Newton Power Plant
PAP	Primary Ash Pond
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	statistically significant increase
SSL	statistically significant level
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.) § 257.90(e) for the Primary Ash Pond (PAP) located at the Newton Power Plant (NPP) near Newton, Illinois.

Groundwater is being monitored at the PAP in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated at the PAP on May 7, 2022.

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.

The following statistically significant level (SSL) of 40 C.F.R. § 257 Appendix IV parameters above groundwater protection standards (GWPSs) was reported in 2023:

- Lithium at well APW02

Alternate source evaluations were inconclusive for the SSL. Consequently, and in accordance with 40 C.F.R. § 257.96, a Corrective Measures Assessment (CMA) was initiated on November 5, 2023 and the required notifications completed. Statistically significant increases (SSIs) of Appendix III parameters above background values were determined in **Section 3**; therefore, the PAP remains in the Assessment Monitoring Program.

Remedy selection will take into consideration compliance with both 40 C.F.R. § 257 and 35 I.A.C. § 845, the latter of which cannot be completed until IEPA apporoves the groundwater monitoring program and issues an operating permit. In accordance with 40 C.F.R. § 257.97, remedy selection is to be completed as soon as feasible following completion of the CMA. As required by 35 I.A.C. § 845.670, a corrective action plan that identifies the selected remedy must be submitted to IEPA one year after completing the assessment of corrective measures. It is anticipated that these activities related to 35 I.A.C. § 845 compliance will occur in 2024 with submittal of a corrective action plan in 2024 that meets the requirements of both 40 C.F.R. § 257 and 35 I.A.C. § 845.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Illinois Power Generating Company, to provide the information required by 40 C.F.R. § 257.90(e) for the PAP located at the NPP near Newton, 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 PAP for calendar year 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

Comparison of GWPSs with concentrations of parameters in compliance monitoring wells observed during the January 31 through February 2, 2023 Assessment Monitoring Program sampling event identified an SSL for one or more 40 C.F.R. § 257 Appendix IV parameters at the PAP.

Alternative source evaluations were inconclusive for the SSL at the PAP. Consequently, and in accordance with 40 C.F.R. § 257.95(g)(5), a CMA meeting the requirements of 40 C.F.R. § 257.96 was initiated on November 5, 2023. Assessment of corrective measures is in progress. Remedy selection will take into consideration compliance with both 40 C.F.R. § 257 and 35 I.A.C. § 845, the latter of which cannot be completed until IEPA approves the groundwater monitoring program and issues an operating permit. In accordance with 40 C.F.R. § 257.97, remedy selection is to be completed as soon as feasible following completion of the CMA. As required by 35 I.A.C. § 845.670, a corrective action plan that identifies the selected remedy must be submitted to IEPA one year after completing the assessment of corrective measures.

The PAP remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.96(b).

3. KEY ACTIONS COMPLETED IN 2023

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

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

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

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

Table A. 2023 Assessment Monitoring Program Summary

Event ID	Sampling Dates	Analytical Data Receipt Date [5]	SSL(s) Determination Date	SSL(s)	CMA Initiated
A2 [1,2,3]	January 31 – March 15 2023	May 16, 2023	August 14, 2023	Lithium at APW02	November 5, 2023
A2R [2,3,4]	April 25 – 28, 2023	June, 8 2023	NA	NA	NA
A2D [2,3,4]	July 24 – August 17, 2023	November 9, 2023	February 7, 2024	TBD	NA
A2DR [2,3,4]	October 10 – 11, 2023	November 17, 2023	NA	NA	NA

Notes:

CMA: Corrective Measures Assessment

NA: not applicable

SSL: Statistically Significant Level

TBD: to be determined in 2024.

[1] All samples were analyzed for Appendix III parameters listed in 40 C.F.R. § 257.94(e) and Appendix IV parameters listed in 40 C.F.R. § 257.95(g), with the exceptions of radium and molybdenum.

[2] The following background wells were sampled for each event: APW05, and APW06.

[3] The following compliance wells were sampled for each event: APW02, APW03, APW04, APW05S, APW07, APW08, APW09, APW10, APW11, APW12, APW13, APW14, APW15, APW16, APW17, and APW18.

[4] All samples were analyzed for Appendix III parameter listed in 40 C.F.R. § 257.94(e) and Appendix IV parameters listed in 40 C.F.R. § 257.95(g).

[5] Data collected in accordance with 35 I.A.C. § 845 were included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

During the Assessment Monitoring Program sampling event occurring between January and March, 2023, radium was monitored only at locations APW05, APW06, APW07, APW08, APW09 and APW10, and molybdenum was not monitored. Because both programs (35 I.A.C. § 845 and 40 C.F.R. § 257) are identical, data from the April 25 through April 28, 2023, Assessment Monitoring Program resample event were used to determine whether an SSL of Appendix IV parameters above GWPSs occurred. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of the Assessment Monitoring Program with semiannual sampling scheduled for the first and third quarters of 2024 (and sampling for 35 I.A.C. § 845 scheduled for the second and fourth quarters).
- Complete evaluation of analytical data from the compliance wells to determine whether an SSL of Appendix IV parameters above GWPSs has occurred.
- If an SSL is identified, potential alternate sources (*i.e.,* a source other than the CCR unit caused the SSL or that the SSL resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
  - If an alternate source is identified to be the cause of the SSL, a written demonstration will be completed within 90 days of SSL determination and included in the 2023 Annual Groundwater Monitoring and Corrective Action Report.
  - If an alternate source(s) is not identified to be the cause of the SSL, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 (*e.g.,* assessment of corrective measures) as may apply in 2023 will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.
- The CMA process will continue in accordance with 40 C.F.R. § 257.96 and 35 I.A.C. § 845.660 in 2024. A CMA extension demonstration was completed on January 19, 2024 (**Appendix D**) and the CMA will be submitted on or before April 4, 2024.
- Remedy selection will take into consideration compliance with both 40 C.F.R. § 257 and 35 I.A.C. § 845; semiannual remedy selection progress reports required by 40 C.F.R. § 257.97(a) will be completed and posted to the publicly accessible website as required by 40 C.F.R. § 257.107(h)(9).

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, Primary Ash Pond, Newton Power Plant, Newton, Illinois. December 28, 2022.

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

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

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

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 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
NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW02	Compliance	UD	01/30/2023	3.79	529.82
APW02	Compliance	UD	04/24/2023	4.09	529.52
APW02	Compliance	UD	05/24/2023	4.13	529.47
APW02	Compliance	UD	07/24/2023	7.32	526.29
APW02	Compliance	UD	09/09/2023	7.26	526.34
APW02	Compliance	UD	10/09/2023	8.14	525.47
APW02	Compliance	UD	11/09/2023	8.59	525.02
APW02	Compliance	UD	12/13/2023	8.56	525.05
APW02	Compliance	UD	01/15/2024	5.30	528.14
APW03	Compliance	UD	01/30/2023	8.29	524.12
APW03	Compliance	UD	04/24/2023	11.92	520.49
APW03	Compliance	UD	05/24/2023	7.59	524.81
APW03	Compliance	UD	06/24/2023	8.32	524.08
APW03	Compliance	UD	07/24/2023	8.47	523.94
APW03	Compliance	UD	08/09/2023	7.04	525.36
APW03	Compliance	UD	09/09/2023	8.01	524.39
APW03	Compliance	UD	10/09/2023	8.04	524.37
APW03	Compliance	UD	11/09/2023	8.11	524.30
APW03	Compliance	UD	12/13/2023	8.35	524.06
APW03	Compliance	UD	01/15/2024	6.15	526.43
APW04	Compliance	UD	01/30/2023	6.95	518.11
APW04	Compliance	UD	04/24/2023	5.27	519.79
APW04	Compliance	UD	05/24/2023	5.35	519.70
APW04	Compliance	UD	06/24/2023	5.60	519.45
APW04	Compliance	UD	07/24/2023	5.93	519.13
APW04	Compliance	UD	08/09/2023	5.07	519.98
APW04	Compliance	UD	09/09/2023	5.46	519.59
APW04	Compliance	UD	10/09/2023	5.45	519.61
APW04	Compliance	UD	11/09/2023	5.59	519.47
APW04	Compliance	UD	12/13/2023	5.84	519.22
APW04	Compliance	UD	01/15/2024	5.11	519.71
APW05	Background	UA	01/30/2023	14.42	529.65
APW05	Background	UA	04/24/2023	14.08	529.99
APW05	Background	UA	05/24/2023	14.06	530.00
APW05	Background	UA	06/24/2023	14.15	529.91
APW05	Background	UA	07/24/2023	14.38	529.69
APW05	Background	UA	08/09/2023	14.20	529.87
APW05	Background	UA	09/09/2023	14.43	529.64
APW05	Background	UA	10/09/2023	14.25	529.82
APW05	Background	UA	11/08/2023	14.11	529.96
APW05	Background	UA	12/13/2023	14.69	529.38
APW05	Background	UA	01/15/2024	14.36	529.88
APW05S	Compliance	UD	01/30/2023	10.39	533.55
APW05S	Compliance	UD	04/24/2023	11.78	532.16
APW05S	Compliance	UD	07/24/2023	13.32	530.62
APW05S	Compliance	UD	08/09/2023	13.18	530.76

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

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW05S	Compliance	UD	10/09/2023	13.82	530.12
APW05S	Compliance	UD	11/08/2023	13.57	530.37
APW05S	Compliance	UD	12/13/2023	13.91	530.03
APW05S	Compliance	UD	01/15/2024	12.48	531.63
APW06	Background	UA	01/30/2023	19.75	526.32
APW06	Background	UA	04/24/2023	19.17	526.90
APW06	Background	UA	05/24/2023	19.05	527.02
APW06	Background	UA	06/24/2023	19.07	527.00
APW06	Background	UA	07/24/2023	19.40	526.67
APW06	Background	UA	10/09/2023	19.40	526.67
APW06	Background	UA	11/08/2023	19.33	526.74
APW06	Background	UA	12/13/2023	20.04	526.03
APW06	Background	UA	01/15/2024	19.72	526.52
APW07	Compliance	UA	01/30/2023	47.04	491.33
APW07	Compliance	UA	04/24/2023	46.18	492.19
APW07	Compliance	UA	05/24/2023	47.01	491.36
APW07	Compliance	UA	06/24/2023	47.08	491.29
APW07	Compliance	UA	07/24/2023	47.36	491.01
APW07	Compliance	UA	08/09/2023	47.24	491.13
APW07	Compliance	UA	09/09/2023	47.42	490.95
APW07	Compliance	UA	10/09/2023	47.18	491.19
APW07	Compliance	UA	11/09/2023	47.61	490.76
APW07	Compliance	UA	12/13/2023	48.22	490.15
APW07	Compliance	UA	01/15/2024	48.06	490.48
APW08	Compliance	UA	01/30/2023	37.79	491.18
APW08	Compliance	UA	04/24/2023	36.99	490.80
APW08	Compliance	UA	05/24/2023	38.19	490.78
APW08	Compliance	UA	06/24/2023	38.21	490.76
APW08	Compliance	UA	07/24/2023	38.33	490.64
APW08	Compliance	UA	08/09/2023	38.55	490.42
APW08	Compliance	UA	09/09/2023	38.55	490.42
APW08	Compliance	UA	10/09/2023	38.01	490.96
APW08	Compliance	UA	11/09/2023	38.44	490.53
APW08	Compliance	UA	12/13/2023	39.08	489.89
APW08	Compliance	UA	01/15/2024	38.81	490.33
APW09	Compliance	UA	01/30/2023	26.50	505.02
APW09	Compliance	UA	04/24/2023	26.55	504.97
APW09	Compliance	UA	05/24/2023	26.47	505.05
APW09	Compliance	UA	06/24/2023	27.09	504.43
APW09	Compliance	UA	07/24/2023	27.85	503.67
APW09	Compliance	UA	08/09/2023	26.91	504.61
APW09	Compliance	UA	09/09/2023	27.21	504.31
APW09	Compliance	UA	10/09/2023	27.55	503.97
APW09	Compliance	UA	11/09/2023	28.12	503.40
APW09	Compliance	UA	12/13/2023	28.42	503.10
APW09	Compliance	UA	01/15/2024	27.95	503.74

TABLE 1
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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW10	Compliance	UA	01/30/2023	17.63	506.62
APW10	Compliance	UA	04/24/2023	17.60	506.65
APW10	Compliance	UA	05/24/2023	18.30	505.95
APW10	Compliance	UA	06/24/2023	18.97	505.28
APW10	Compliance	UA	07/24/2023	19.40	504.85
APW10	Compliance	UA	08/09/2023	18.87	505.38
APW10	Compliance	UA	10/09/2023	18.79	505.46
APW10	Compliance	UA	11/09/2023	19.20	505.05
APW10	Compliance	UA	12/13/2023	19.65	504.60
APW10	Compliance	UA	01/15/2024	19.22	505.20
APW11	Compliance	UA	01/30/2023	24.41	514.22
APW11	Compliance	UA	04/24/2023	24.26	514.37
APW11	Compliance	UA	06/24/2023	24.68	513.94
APW11	Compliance	UA	07/24/2023	25.09	513.54
APW11	Compliance	UA	08/09/2023	24.99	513.64
APW11	Compliance	UA	09/09/2023	24.93	513.69
APW11	Compliance	UA	10/09/2023	25.03	513.60
APW11	Compliance	UA	11/09/2023	25.25	513.38
APW11	Compliance	UA	12/13/2023	25.61	513.02
APW11	Compliance	UA	01/15/2024	25.53	513.27
APW12	Compliance	UD	01/30/2023	14.64	531.65
APW12	Compliance	UD	04/24/2023	14.59	531.70
APW12	Compliance	UD	07/24/2023	15.93	530.36
APW12	Compliance	UD	09/09/2023	16.05	530.24
APW12	Compliance	UD	10/09/2023	16.04	530.25
APW12	Compliance	UD	11/09/2023	16.36	529.93
APW12	Compliance	UD	12/13/2023	16.71	529.58
APW12	Compliance	UD	01/15/2024	16.32	530.14
APW13	Compliance	UA	01/30/2023	32.33	505.66
APW13	Compliance	UA	04/24/2023	32.00	505.99
APW13	Compliance	UA	05/24/2023	32.50	505.49
APW13	Compliance	UA	06/24/2023	33.05	504.94
APW13	Compliance	UA	07/24/2023	33.49	504.50
APW13	Compliance	UA	10/09/2023	33.06	504.93
APW13	Compliance	UA	11/09/2023	33.60	504.39
APW13	Compliance	UA	12/13/2023	34.24	503.75
APW13	Compliance	UA	01/15/2024	34.14	504.02
APW14	Compliance	UA	01/30/2023	20.87	505.42
APW14	Compliance	UA	04/24/2023	20.89	505.40
APW14	Compliance	UA	05/24/2023	21.12	505.16
APW14	Compliance	UA	06/24/2023	21.69	504.59
APW14	Compliance	UA	07/24/2023	22.12	504.17
APW14	Compliance	UA	08/09/2023	21.65	504.63
APW14	Compliance	UA	09/09/2023	21.76	504.52
APW14	Compliance	UA	10/09/2023	21.73	504.56
APW14	Compliance	UA	11/09/2023	22.33	503.96

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

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW14	Compliance	UA	12/13/2023	22.79	503.50
APW14	Compliance	UA	01/15/2024	25.52	500.94
APW15	Compliance	UA	01/30/2023	21.33	503.36
APW15	Compliance	UA	04/24/2023	21.51	503.18
APW15	Compliance	UA	05/24/2023	21.34	503.35
APW15	Compliance	UA	06/24/2023	21.13	503.56
APW15	Compliance	UA	07/24/2023	21.40	503.29
APW15	Compliance	UA	10/09/2023	21.00	503.69
APW15	Compliance	UA	11/09/2023	21.38	503.31
APW15	Compliance	UA	12/13/2023	21.89	502.80
APW15	Compliance	UA	01/15/2024	21.69	503.17
APW16	Compliance	UA	01/30/2023	40.34	490.84
APW16	Compliance	UA	04/24/2023	40.22	490.96
APW16	Compliance	UA	05/24/2023	40.22	490.96
APW16	Compliance	UA	06/24/2023	40.41	490.77
APW16	Compliance	UA	07/24/2023	40.89	490.29
APW16	Compliance	UA	10/09/2023	40.61	490.57
APW16	Compliance	UA	11/09/2023	41.03	490.15
APW16	Compliance	UA	12/13/2023	41.65	489.53
APW16	Compliance	UA	01/15/2024	41.60	489.75
APW17	Compliance	UA	01/30/2023	41.41	491.11
APW17	Compliance	UA	04/24/2023	41.16	491.36
APW17	Compliance	UA	07/24/2023	41.81	490.71
APW17	Compliance	UA	10/09/2023	41.58	490.94
APW17	Compliance	UA	11/09/2023	42.04	490.48
APW17	Compliance	UA	12/13/2023	42.69	489.83
APW17	Compliance	UA	01/15/2024	42.57	490.12
APW18	Compliance	UA	01/30/2023	52.00	491.27
APW18	Compliance	UA	04/24/2023	51.91	491.36
APW18	Compliance	UA	05/24/2023	51.88	491.39
APW18	Compliance	UA	06/24/2023	51.98	491.29
APW18	Compliance	UA	07/24/2023	52.25	491.02
APW18	Compliance	UA	08/09/2023	52.18	491.09
APW18	Compliance	UA	10/09/2023	52.08	491.19
APW18	Compliance	UA	11/09/2023	52.57	490.70
APW18	Compliance	UA	12/13/2023	52.22	491.05
APW18	Compliance	UA	01/15/2024	53.08	490.36
XSG01	Water Level	CCR	01/30/2023	53.43	482.74
XSG01	Water Level	CCR	04/24/2023	2.17	534.00
XSG01	Water Level	CCR	10/09/2023	6.04	530.13
XSG01	Water Level	CCR	11/09/2023	5.92	530.25
XSG01	Water Level	CCR	12/13/2023	5.94	530.23
XSG01	Water Level	CCR	01/15/2024	5.70	530.64
SG02	Water Level	SW	04/24/2023	2.11	504.78
SG02	Water Level	SW	10/09/2023	3.33	503.56
SG02	Water Level	SW	11/09/2023	10.00	496.89

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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
SG02	Water Level	SW	12/13/2023	10.24	496.65
SG02	Water Level	SW	01/15/2024	3.75	503.14

Notes:
Only wells with groundwater elevations measured are included.
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:

CCR = coal combustion residuals

SW = surface water

UA = uppermost aquifer

UD = upper drift

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

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW05	UA	Background	03/14/2023	A2	Boron, total	mg/L	0.120	NA	NA
APW05	UA	Background	04/27/2023	A2R	Boron, total	mg/L	0.0920	NA	NA
APW05	UA	Background	07/24/2023	A2D	Boron, total	mg/L	0.108	NA	NA
APW05	UA	Background	10/10/2023	A2DR	Boron, total	mg/L	0.0897	NA	NA
APW05	UA	Background	03/14/2023	A2	Calcium, total	mg/L	56.0	NA	NA
APW05	UA	Background	04/27/2023	A2R	Calcium, total	mg/L	49.0	NA	NA
APW05	UA	Background	07/24/2023	A2D	Calcium, total	mg/L	50.4	NA	NA
APW05	UA	Background	10/10/2023	A2DR	Calcium, total	mg/L	52.8	NA	NA
APW05	UA	Background	03/14/2023	A2	Chloride, total	mg/L	44.0	NA	NA
APW05	UA	Background	04/27/2023	A2R	Chloride, total	mg/L	46.0	NA	NA
APW05	UA	Background	07/24/2023	A2D	Chloride, total	mg/L	46.0	NA	NA
APW05	UA	Background	10/10/2023	A2DR	Chloride, total	mg/L	46.0	NA	NA
APW05	UA	Background	03/14/2023	A2	Fluoride, total	mg/L	0.468	NA	NA
APW05	UA	Background	04/27/2023	A2R	Fluoride, total	mg/L	0.498	NA	NA
APW05	UA	Background	07/24/2023	A2D	Fluoride, total	mg/L	0.480	NA	NA
APW05	UA	Background	10/10/2023	A2DR	Fluoride, total	mg/L	0.530	NA	NA
APW05	UA	Background	03/14/2023	A2	pH (field)	SU	7.6	NA	NA
APW05	UA	Background	04/27/2023	A2R	pH (field)	SU	7.1	NA	NA
APW05	UA	Background	07/24/2023	A2D	pH (field)	SU	8.0	NA	NA
APW05	UA	Background	10/10/2023	A2DR	pH (field)	SU	7.4	NA	NA
APW05	UA	Background	03/14/2023	A2	Sulfate, total	mg/L	1.10	NA	NA
APW05	UA	Background	04/27/2023	A2R	Sulfate, total	mg/L	0.97 J	NA	NA
APW05	UA	Background	07/24/2023	A2D	Sulfate, total	mg/L	10.0 J+	NA	NA
APW05	UA	Background	10/10/2023	A2DR	Sulfate, total	mg/L	8 J	NA	NA
APW05	UA	Background	03/14/2023	A2	Total Dissolved Solids	mg/L	490	NA	NA
APW05	UA	Background	04/27/2023	A2R	Total Dissolved Solids	mg/L	560	NA	NA
APW05	UA	Background	07/24/2023	A2D	Total Dissolved Solids	mg/L	550	NA	NA
APW05	UA	Background	10/10/2023	A2DR	Total Dissolved Solids	mg/L	562	NA	NA
APW06	UA	Background	03/15/2023	A2	Boron, total	mg/L	0.0940	NA	NA
APW06	UA	Background	04/26/2023	A2R	Boron, total	mg/L	0.0870 J+	NA	NA
APW06	UA	Background	07/25/2023	A2D	Boron, total	mg/L	0.605	NA	NA
APW06	UA	Background	10/10/2023	A2DR	Boron, total	mg/L	0.0750	NA	NA
APW06	UA	Background	03/15/2023	A2	Calcium, total	mg/L	54.0	NA	NA
APW06	UA	Background	04/26/2023	A2R	Calcium, total	mg/L	58.0	NA	NA
APW06	UA	Background	07/25/2023	A2D	Calcium, total	mg/L	53.7	NA	NA
APW06	UA	Background	10/10/2023	A2DR	Calcium, total	mg/L	56.8	NA	NA
APW06	UA	Background	03/15/2023	A2	Chloride, total	mg/L	22.0	NA	NA
APW06	UA	Background	04/26/2023	A2R	Chloride, total	mg/L	26.0	NA	NA
APW06	UA	Background	07/25/2023	A2D	Chloride, total	mg/L	24.0	NA	NA
APW06	UA	Background	10/10/2023	A2DR	Chloride, total	mg/L	23.0	NA	NA
APW06	UA	Background	03/15/2023	A2	Fluoride, total	mg/L	0.493	NA	NA
APW06	UA	Background	04/26/2023	A2R	Fluoride, total	mg/L	0.489	NA	NA
APW06	UA	Background	07/25/2023	A2D	Fluoride, total	mg/L	0.580	NA	NA
APW06	UA	Background	10/10/2023	A2DR	Fluoride, total	mg/L	0.550	NA	NA
APW06	UA	Background	03/15/2023	A2	pH (field)	SU	7.5	NA	NA
APW06	UA	Background	04/26/2023	A2R	pH (field)	SU	7.3	NA	NA

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

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW06	UA	Background	07/25/2023	A2D	pH (field)	SU	7.7	NA	NA
APW06	UA	Background	10/10/2023	A2DR	pH (field)	SU	7.1	NA	NA
APW06	UA	Background	03/15/2023	A2	Sulfate, total	mg/L	6.80	NA	NA
APW06	UA	Background	04/26/2023	A2R	Sulfate, total	mg/L	7.60	NA	NA
APW06	UA	Background	07/25/2023	A2D	Sulfate, total	mg/L	17.0 J+	NA	NA
APW06	UA	Background	10/10/2023	A2DR	Sulfate, total	mg/L	11.0	NA	NA
APW06	UA	Background	03/15/2023	A2	Total Dissolved Solids	mg/L	500	NA	NA
APW06	UA	Background	04/26/2023	A2R	Total Dissolved Solids	mg/L	500 J+	NA	NA
APW06	UA	Background	07/25/2023	A2D	Total Dissolved Solids	mg/L	540	NA	NA
APW06	UA	Background	10/10/2023	A2DR	Total Dissolved Solids	mg/L	526	NA	NA
APW02	UD	Compliance	03/15/2023	A2	Boron, total	mg/L	0.150	0.145	Exceedance Not Confirmed
APW02	UD	Compliance	04/27/2023	A2R	Boron, total	mg/L	0.120 J+	0.145	No Exceedance
APW02	UD	Compliance	08/17/2023	A2D	Boron, total	mg/L	0.189	0.145	TBD
APW02	UD	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.111	0.145	TBD
APW02	UD	Compliance	03/15/2023	A2	Calcium, total	mg/L	490	66.5	Confirmed
APW02	UD	Compliance	04/27/2023	A2R	Calcium, total	mg/L	460	66.5	Confirmed
APW02	UD	Compliance	08/17/2023	A2D	Calcium, total	mg/L	475	66.5	TBD
APW02	UD	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	506	66.5	TBD
APW02	UD	Compliance	03/15/2023	A2	Chloride, total	mg/L	100	58.0	Confirmed
APW02	UD	Compliance	04/27/2023	A2R	Chloride, total	mg/L	110	58.0	Confirmed
APW02	UD	Compliance	08/17/2023	A2D	Chloride, total	mg/L	102	58.0	TBD
APW02	UD	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	100	58.0	TBD
APW02	UD	Compliance	03/15/2023	A2	Fluoride, total	mg/L	0.191 J	0.705	No Exceedance
APW02	UD	Compliance	04/27/2023	A2R	Fluoride, total	mg/L	0.172 J	0.705	No Exceedance
APW02	UD	Compliance	08/17/2023	A2D	Fluoride, total	mg/L	0.210	0.705	TBD
APW02	UD	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.230	0.705	TBD
APW02	UD	Compliance	03/15/2023	A2	pH (field)	SU	6.8	6.6/8.0	No Exceedance
APW02	UD	Compliance	04/27/2023	A2R	pH (field)	SU	6.7	6.6/8.0	No Exceedance
APW02	UD	Compliance	08/17/2023	A2D	pH (field)	SU	6.7	6.6/8.0	TBD
APW02	UD	Compliance	10/10/2023	A2DR	pH (field)	SU	6.7	6.6/8.0	TBD
APW02	UD	Compliance	03/15/2023	A2	Sulfate, total	mg/L	3,000	15.0	Confirmed
APW02	UD	Compliance	04/27/2023	A2R	Sulfate, total	mg/L	3,100	15.0	Confirmed
APW02	UD	Compliance	08/17/2023	A2D	Sulfate, total	mg/L	2,860	15.0	TBD
APW02	UD	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	2,900	15.0	TBD
APW02	UD	Compliance	03/15/2023	A2	Total Dissolved Solids	mg/L	5,200	1000	Confirmed
APW02	UD	Compliance	04/27/2023	A2R	Total Dissolved Solids	mg/L	5,400	1000	Confirmed
APW02	UD	Compliance	08/17/2023	A2D	Total Dissolved Solids	mg/L	3,660	1000	TBD
APW02	UD	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	3,890	1000	TBD
APW03	UD	Compliance	03/14/2023	A2	Boron, total	mg/L	0.420	0.145	Confirmed
APW03	UD	Compliance	04/25/2023	A2R	Boron, total	mg/L	0.370	0.145	Confirmed
APW03	UD	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.538	0.145	TBD
APW03	UD	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.440	0.145	TBD
APW03	UD	Compliance	03/14/2023	A2	Calcium, total	mg/L	96.0	66.5	Confirmed
APW03	UD	Compliance	04/25/2023	A2R	Calcium, total	mg/L	96.0	66.5	Confirmed
APW03	UD	Compliance	07/31/2023	A2D	Calcium, total	mg/L	96.5	66.5	TBD
APW03	UD	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	92.5	66.5	TBD

TABLE 2
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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW03	UD	Compliance	03/14/2023	A2	Chloride, total	mg/L	7.10	58.0	No Exceedance
APW03	UD	Compliance	04/25/2023	A2R	Chloride, total	mg/L	6.90	58.0	No Exceedance
APW03	UD	Compliance	07/31/2023	A2D	Chloride, total	mg/L	10.0	58.0	TBD
APW03	UD	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	7.00	58.0	TBD
APW03	UD	Compliance	03/14/2023	A2	Fluoride, total	mg/L	0.192 J	0.705	No Exceedance
APW03	UD	Compliance	04/25/2023	A2R	Fluoride, total	mg/L	0.04 U	0.705	No Exceedance
APW03	UD	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.230	0.705	TBD
APW03	UD	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.260	0.705	TBD
APW03	UD	Compliance	03/14/2023	A2	pH (field)	SU	7.0	6.6/8.0	No Exceedance
APW03	UD	Compliance	04/25/2023	A2R	pH (field)	SU	7.0	6.6/8.0	No Exceedance
APW03	UD	Compliance	07/31/2023	A2D	pH (field)	SU	6.8	6.6/8.0	TBD
APW03	UD	Compliance	10/10/2023	A2DR	pH (field)	SU	6.9	6.6/8.0	TBD
APW03	UD	Compliance	03/14/2023	A2	Sulfate, total	mg/L	110	15.0	Confirmed
APW03	UD	Compliance	04/25/2023	A2R	Sulfate, total	mg/L	120	15.0	Confirmed
APW03	UD	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	118	15.0	TBD
APW03	UD	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	113	15.0	TBD
APW03	UD	Compliance	03/14/2023	A2	Total Dissolved Solids	mg/L	800	1000	No Exceedance
APW03	UD	Compliance	04/25/2023	A2R	Total Dissolved Solids	mg/L	740	1000	No Exceedance
APW03	UD	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	620	1000	TBD
APW03	UD	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	628	1000	TBD
APW04	UD	Compliance	03/14/2023	A2	Boron, total	mg/L	0.0340	0.145	No Exceedance
APW04	UD	Compliance	04/25/2023	A2R	Boron, total	mg/L	0.0240	0.145	No Exceedance
APW04	UD	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.0402	0.145	TBD
APW04	UD	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0322	0.145	TBD
APW04	UD	Compliance	03/14/2023	A2	Calcium, total	mg/L	220	66.5	Confirmed
APW04	UD	Compliance	04/25/2023	A2R	Calcium, total	mg/L	210	66.5	Confirmed
APW04	UD	Compliance	07/31/2023	A2D	Calcium, total	mg/L	211	66.5	TBD
APW04	UD	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	206	66.5	TBD
APW04	UD	Compliance	03/14/2023	A2	Chloride, total	mg/L	31.0	58.0	No Exceedance
APW04	UD	Compliance	04/25/2023	A2R	Chloride, total	mg/L	34.0	58.0	No Exceedance
APW04	UD	Compliance	07/31/2023	A2D	Chloride, total	mg/L	36.0	58.0	TBD
APW04	UD	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	34.0	58.0	TBD
APW04	UD	Compliance	03/14/2023	A2	Fluoride, total	mg/L	0.133 J	0.705	No Exceedance
APW04	UD	Compliance	04/25/2023	A2R	Fluoride, total	mg/L	0.051 J	0.705	No Exceedance
APW04	UD	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.180	0.705	TBD
APW04	UD	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.200	0.705	TBD
APW04	UD	Compliance	03/14/2023	A2	pH (field)	SU	7.4	6.6/8.0	No Exceedance
APW04	UD	Compliance	04/25/2023	A2R	pH (field)	SU	6.9	6.6/8.0	No Exceedance
APW04	UD	Compliance	07/31/2023	A2D	pH (field)	SU	6.6	6.6/8.0	TBD
APW04	UD	Compliance	10/10/2023	A2DR	pH (field)	SU	6.8	6.6/8.0	TBD
APW04	UD	Compliance	03/14/2023	A2	Sulfate, total	mg/L	760	15.0	Confirmed
APW04	UD	Compliance	04/25/2023	A2R	Sulfate, total	mg/L	840	15.0	Confirmed
APW04	UD	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	808	15.0	TBD
APW04	UD	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	808	15.0	TBD
APW04	UD	Compliance	03/14/2023	A2	Total Dissolved Solids	mg/L	1,600	1000	Confirmed
APW04	UD	Compliance	04/25/2023	A2R	Total Dissolved Solids	mg/L	1,800	1000	Confirmed

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PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW04	UD	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	1,770	1000	TBD
APW04	UD	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	1,710	1000	TBD
APW05S	UD	Compliance	03/14/2023	A2	Boron, total	mg/L	0.0600	0.145	No Exceedance
APW05S	UD	Compliance	04/26/2023	A2R	Boron, total	mg/L	0.0540 J+	0.145	No Exceedance
APW05S	UD	Compliance	07/25/2023	A2D	Boron, total	mg/L	0.209	0.145	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0380	0.145	TBD
APW05S	UD	Compliance	03/14/2023	A2	Calcium, total	mg/L	430	66.5	Confirmed
APW05S	UD	Compliance	04/26/2023	A2R	Calcium, total	mg/L	390	66.5	Confirmed
APW05S	UD	Compliance	07/25/2023	A2D	Calcium, total	mg/L	355	66.5	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	373	66.5	TBD
APW05S	UD	Compliance	03/14/2023	A2	Chloride, total	mg/L	200	58.0	Confirmed
APW05S	UD	Compliance	04/26/2023	A2R	Chloride, total	mg/L	200	58.0	Confirmed
APW05S	UD	Compliance	07/25/2023	A2D	Chloride, total	mg/L	123	58.0	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	112	58.0	TBD
APW05S	UD	Compliance	03/14/2023	A2	Fluoride, total	mg/L	0.478	0.705	No Exceedance
APW05S	UD	Compliance	04/26/2023	A2R	Fluoride, total	mg/L	0.365	0.705	No Exceedance
APW05S	UD	Compliance	07/25/2023	A2D	Fluoride, total	mg/L	0.410	0.705	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.410	0.705	TBD
APW05S	UD	Compliance	03/14/2023	A2	pH (field)	SU	7.1	6.6/8.0	No Exceedance
APW05S	UD	Compliance	04/26/2023	A2R	pH (field)	SU	6.6	6.6/8.0	No Exceedance
APW05S	UD	Compliance	07/25/2023	A2D	pH (field)	SU	6.9	6.6/8.0	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	pH (field)	SU	6.7	6.6/8.0	TBD
APW05S	UD	Compliance	03/14/2023	A2	Sulfate, total	mg/L	1,900	15.0	Confirmed
APW05S	UD	Compliance	04/26/2023	A2R	Sulfate, total	mg/L	2,100	15.0	Confirmed
APW05S	UD	Compliance	07/25/2023	A2D	Sulfate, total	mg/L	1,790	15.0	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	1,700	15.0	TBD
APW05S	UD	Compliance	03/14/2023	A2	Total Dissolved Solids	mg/L	4,000	1000	Confirmed
APW05S	UD	Compliance	04/26/2023	A2R	Total Dissolved Solids	mg/L	3,800 J+	1000	Confirmed
APW05S	UD	Compliance	07/25/2023	A2D	Total Dissolved Solids	mg/L	3,200	1000	TBD
APW05S	UD	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	3,240	1000	TBD
APW07	UA	Compliance	01/31/2023	A2	Boron, total	mg/L	0.0820	0.145	No Exceedance
APW07	UA	Compliance	04/27/2023	A2R	Boron, total	mg/L	0.0850 J+	0.145	No Exceedance
APW07	UA	Compliance	07/25/2023	A2D	Boron, total	mg/L	0.144	0.145	TBD
APW07	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0680	0.145	TBD
APW07	UA	Compliance	01/31/2023	A2	Calcium, total	mg/L	110	66.5	Confirmed
APW07	UA	Compliance	04/27/2023	A2R	Calcium, total	mg/L	100	66.5	Confirmed
APW07	UA	Compliance	07/25/2023	A2D	Calcium, total	mg/L	90.4	66.5	TBD
APW07	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	96.2	66.5	TBD
APW07	UA	Compliance	01/31/2023	A2	Chloride, total	mg/L	59.0	58.0	Confirmed
APW07	UA	Compliance	04/27/2023	A2R	Chloride, total	mg/L	63.0	58.0	Confirmed
APW07	UA	Compliance	07/25/2023	A2D	Chloride, total	mg/L	62.0	58.0	TBD
APW07	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	67.0	58.0	TBD
APW07	UA	Compliance	01/31/2023	A2	Fluoride, total	mg/L	0.409	0.705	No Exceedance
APW07	UA	Compliance	04/27/2023	A2R	Fluoride, total	mg/L	0.409	0.705	No Exceedance
APW07	UA	Compliance	07/25/2023	A2D	Fluoride, total	mg/L	0.430	0.705	TBD
APW07	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.420	0.705	TBD

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW07	UA	Compliance	01/31/2023	A2	pH (field)	SU	6.8	6.6/8.0	No Exceedance
APW07	UA	Compliance	04/27/2023	A2R	pH (field)	SU	7.4	6.6/8.0	No Exceedance
APW07	UA	Compliance	07/25/2023	A2D	pH (field)	SU	7.3	6.6/8.0	TBD
APW07	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.6	6.6/8.0	TBD
APW07	UA	Compliance	01/31/2023	A2	Sulfate, total	mg/L	12.0	15.0	No Exceedance
APW07	UA	Compliance	04/27/2023	A2R	Sulfate, total	mg/L	14.0	15.0	No Exceedance
APW07	UA	Compliance	07/25/2023	A2D	Sulfate, total	mg/L	23.0 J+	15.0	TBD
APW07	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	16.0	15.0	TBD
APW07	UA	Compliance	01/31/2023	A2	Total Dissolved Solids	mg/L	560	1000	No Exceedance
APW07	UA	Compliance	04/27/2023	A2R	Total Dissolved Solids	mg/L	590	1000	No Exceedance
APW07	UA	Compliance	07/25/2023	A2D	Total Dissolved Solids	mg/L	605	1000	TBD
APW07	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	630	1000	TBD
APW08	UA	Compliance	01/31/2023	A2	Boron, total	mg/L	0.0820	0.145	No Exceedance
APW08	UA	Compliance	04/26/2023	A2R	Boron, total	mg/L	0.0870 J+	0.145	No Exceedance
APW08	UA	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.114	0.145	TBD
APW08	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0710	0.145	TBD
APW08	UA	Compliance	01/31/2023	A2	Calcium, total	mg/L	110	66.5	Confirmed
APW08	UA	Compliance	04/26/2023	A2R	Calcium, total	mg/L	110	66.5	Confirmed
APW08	UA	Compliance	07/31/2023	A2D	Calcium, total	mg/L	102	66.5	TBD
APW08	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	103	66.5	TBD
APW08	UA	Compliance	01/31/2023	A2	Chloride, total	mg/L	55.0	58.0	No Exceedance
APW08	UA	Compliance	04/26/2023	A2R	Chloride, total	mg/L	58.0	58.0	No Exceedance
APW08	UA	Compliance	07/31/2023	A2D	Chloride, total	mg/L	56.0	58.0	TBD
APW08	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	60.0	58.0	TBD
APW08	UA	Compliance	01/31/2023	A2	Fluoride, total	mg/L	0.430	0.705	No Exceedance
APW08	UA	Compliance	04/26/2023	A2R	Fluoride, total	mg/L	0.404	0.705	No Exceedance
APW08	UA	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.440	0.705	TBD
APW08	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.480	0.705	TBD
APW08	UA	Compliance	01/31/2023	A2	pH (field)	SU	7.3	6.6/8.0	No Exceedance
APW08	UA	Compliance	04/26/2023	A2R	pH (field)	SU	7.5	6.6/8.0	No Exceedance
APW08	UA	Compliance	07/31/2023	A2D	pH (field)	SU	7.1	6.6/8.0	TBD
APW08	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.4	6.6/8.0	TBD
APW08	UA	Compliance	01/31/2023	A2	Sulfate, total	mg/L	44.0	15.0	Confirmed
APW08	UA	Compliance	04/26/2023	A2R	Sulfate, total	mg/L	48.0	15.0	Confirmed
APW08	UA	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	53.0 J+	15.0	TBD
APW08	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	57.0	15.0	TBD
APW08	UA	Compliance	01/31/2023	A2	Total Dissolved Solids	mg/L	600	1000	No Exceedance
APW08	UA	Compliance	04/26/2023	A2R	Total Dissolved Solids	mg/L	640 J+	1000	No Exceedance
APW08	UA	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	600	1000	TBD
APW08	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	615	1000	TBD
APW09	UA	Compliance	01/31/2023	A2	Boron, total	mg/L	0.100	0.145	No Exceedance
APW09	UA	Compliance	04/27/2023	A2R	Boron, total	mg/L	0.0990 J+	0.145	No Exceedance
APW09	UA	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.121	0.145	TBD
APW09	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0780	0.145	TBD
APW09	UA	Compliance	01/31/2023	A2	Calcium, total	mg/L	94.0	66.5	Confirmed
APW09	UA	Compliance	04/27/2023	A2R	Calcium, total	mg/L	76.0	66.5	Confirmed

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW09	UA	Compliance	07/31/2023	A2D	Calcium, total	mg/L	78.4	66.5	TBD
APW09	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	69.2	66.5	TBD
APW09	UA	Compliance	01/31/2023	A2	Chloride, total	mg/L	130	58.0	Confirmed
APW09	UA	Compliance	04/27/2023	A2R	Chloride, total	mg/L	130	58.0	Confirmed
APW09	UA	Compliance	07/31/2023	A2D	Chloride, total	mg/L	134	58.0	TBD
APW09	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	94.0	58.0	TBD
APW09	UA	Compliance	01/31/2023	A2	Fluoride, total	mg/L	0.468	0.705	No Exceedance
APW09	UA	Compliance	04/27/2023	A2R	Fluoride, total	mg/L	0.482	0.705	No Exceedance
APW09	UA	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.500	0.705	TBD
APW09	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.630	0.705	TBD
APW09	UA	Compliance	01/31/2023	A2	pH (field)	SU	7.6	6.6/8.0	No Exceedance
APW09	UA	Compliance	04/27/2023	A2R	pH (field)	SU	7.5	6.6/8.0	No Exceedance
APW09	UA	Compliance	07/31/2023	A2D	pH (field)	SU	7.2	6.6/8.0	TBD
APW09	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.6	6.6/8.0	TBD
APW09	UA	Compliance	01/31/2023	A2	Sulfate, total	mg/L	11.0	15.0	No Exceedance
APW09	UA	Compliance	04/27/2023	A2R	Sulfate, total	mg/L	9.40	15.0	No Exceedance
APW09	UA	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	19.0 J+	15.0	TBD
APW09	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	32.0	15.0	TBD
APW09	UA	Compliance	01/31/2023	A2	Total Dissolved Solids	mg/L	760	1000	No Exceedance
APW09	UA	Compliance	04/27/2023	A2R	Total Dissolved Solids	mg/L	840	1000	No Exceedance
APW09	UA	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	805	1000	TBD
APW09	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	760	1000	TBD
APW10	UA	Compliance	01/31/2023	A2	Boron, total	mg/L	0.0740	0.145	No Exceedance
APW10	UA	Compliance	04/27/2023	A2R	Boron, total	mg/L	0.0770 J+	0.145	No Exceedance
APW10	UA	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.0923	0.145	TBD
APW10	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0626	0.145	TBD
APW10	UA	Compliance	01/31/2023	A2	Calcium, total	mg/L	160	66.5	Confirmed
APW10	UA	Compliance	04/27/2023	A2R	Calcium, total	mg/L	140	66.5	Confirmed
APW10	UA	Compliance	07/31/2023	A2D	Calcium, total	mg/L	140	66.5	TBD
APW10	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	146	66.5	TBD
APW10	UA	Compliance	01/31/2023	A2	Chloride, total	mg/L	41.0	58.0	No Exceedance
APW10	UA	Compliance	04/27/2023	A2R	Chloride, total	mg/L	46.0	58.0	No Exceedance
APW10	UA	Compliance	07/31/2023	A2D	Chloride, total	mg/L	45.0	58.0	TBD
APW10	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	43.0	58.0	TBD
APW10	UA	Compliance	01/31/2023	A2	Fluoride, total	mg/L	0.314	0.705	No Exceedance
APW10	UA	Compliance	04/27/2023	A2R	Fluoride, total	mg/L	0.217 J	0.705	No Exceedance
APW10	UA	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.320	0.705	TBD
APW10	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.340	0.705	TBD
APW10	UA	Compliance	01/31/2023	A2	pH (field)	SU	7.4	6.6/8.0	No Exceedance
APW10	UA	Compliance	04/27/2023	A2R	pH (field)	SU	7.4	6.6/8.0	No Exceedance
APW10	UA	Compliance	07/31/2023	A2D	pH (field)	SU	7.1	6.6/8.0	TBD
APW10	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.3	6.6/8.0	TBD
APW10	UA	Compliance	01/31/2023	A2	Sulfate, total	mg/L	390	15.0	Confirmed
APW10	UA	Compliance	04/27/2023	A2R	Sulfate, total	mg/L	410	15.0	Confirmed
APW10	UA	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	421	15.0	TBD
APW10	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	399	15.0	TBD

TABLE 2
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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW10	UA	Compliance	01/31/2023	A2	Total Dissolved Solids	mg/L	1,000	1000	No Exceedance
APW10	UA	Compliance	04/27/2023	A2R	Total Dissolved Solids	mg/L	1,100	1000	Exceedance Not Confirmed
APW10	UA	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	1,060	1000	TBD
APW10	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	1,050	1000	TBD
APW11	UA	Compliance	03/15/2023	A2	Boron, total	mg/L	0.0630	0.145	No Exceedance
APW11	UA	Compliance	04/26/2023	A2R	Boron, total	mg/L	0.0640 J+	0.145	No Exceedance
APW11	UA	Compliance	07/24/2023	A2D	Boron, total	mg/L	0.0646	0.145	TBD
APW11	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0578	0.145	TBD
APW11	UA	Compliance	03/15/2023	A2	Calcium, total	mg/L	110	66.5	Confirmed
APW11	UA	Compliance	04/26/2023	A2R	Calcium, total	mg/L	120	66.5	Confirmed
APW11	UA	Compliance	07/24/2023	A2D	Calcium, total	mg/L	122	66.5	TBD
APW11	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	126	66.5	TBD
APW11	UA	Compliance	03/15/2023	A2	Chloride, total	mg/L	23.0	58.0	No Exceedance
APW11	UA	Compliance	04/26/2023	A2R	Chloride, total	mg/L	26.0	58.0	No Exceedance
APW11	UA	Compliance	07/24/2023	A2D	Chloride, total	mg/L	25.0	58.0	TBD
APW11	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	26.0	58.0	TBD
APW11	UA	Compliance	03/15/2023	A2	Fluoride, total	mg/L	0.311	0.705	No Exceedance
APW11	UA	Compliance	04/26/2023	A2R	Fluoride, total	mg/L	0.283	0.705	No Exceedance
APW11	UA	Compliance	07/24/2023	A2D	Fluoride, total	mg/L	0.320	0.705	TBD
APW11	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.370	0.705	TBD
APW11	UA	Compliance	03/15/2023	A2	pH (field)	SU	7.2	6.6/8.0	No Exceedance
APW11	UA	Compliance	04/26/2023	A2R	pH (field)	SU	7.2	6.6/8.0	No Exceedance
APW11	UA	Compliance	07/24/2023	A2D	pH (field)	SU	7.2	6.6/8.0	TBD
APW11	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.5	6.6/8.0	TBD
APW11	UA	Compliance	03/15/2023	A2	Sulfate, total	mg/L	270	15.0	Confirmed
APW11	UA	Compliance	04/26/2023	A2R	Sulfate, total	mg/L	260	15.0	Confirmed
APW11	UA	Compliance	07/24/2023	A2D	Sulfate, total	mg/L	268	15.0	TBD
APW11	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	277	15.0	TBD
APW11	UA	Compliance	03/15/2023	A2	Total Dissolved Solids	mg/L	820	1000	No Exceedance
APW11	UA	Compliance	04/26/2023	A2R	Total Dissolved Solids	mg/L	920 J+	1000	No Exceedance
APW11	UA	Compliance	07/24/2023	A2D	Total Dissolved Solids	mg/L	840	1000	TBD
APW11	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	835	1000	TBD
APW12	UD	Compliance	03/15/2023	A2	Boron, total	mg/L	0.420	0.145	Confirmed
APW12	UD	Compliance	04/26/2023	A2R	Boron, total	mg/L	0.440	0.145	Confirmed
APW12	UD	Compliance	07/24/2023	A2D	Boron, total	mg/L	0.521	0.145	TBD
APW12	UD	Compliance	10/11/2023	A2DR	Boron, total	mg/L	0.724	0.145	TBD
APW12	UD	Compliance	03/15/2023	A2	Calcium, total	mg/L	230	66.5	Confirmed
APW12	UD	Compliance	04/26/2023	A2R	Calcium, total	mg/L	230	66.5	Confirmed
APW12	UD	Compliance	07/24/2023	A2D	Calcium, total	mg/L	245	66.5	TBD
APW12	UD	Compliance	10/11/2023	A2DR	Calcium, total	mg/L	275	66.5	TBD
APW12	UD	Compliance	03/15/2023	A2	Chloride, total	mg/L	22.0	58.0	No Exceedance
APW12	UD	Compliance	04/26/2023	A2R	Chloride, total	mg/L	23.0	58.0	No Exceedance
APW12	UD	Compliance	07/24/2023	A2D	Chloride, total	mg/L	25.0	58.0	TBD
APW12	UD	Compliance	10/11/2023	A2DR	Chloride, total	mg/L	31.0	58.0	TBD
APW12	UD	Compliance	03/15/2023	A2	Fluoride, total	mg/L	0.121 J	0.705	No Exceedance
APW12	UD	Compliance	04/26/2023	A2R	Fluoride, total	mg/L	0.04 U	0.705	No Exceedance

TABLE 2
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NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW12	UD	Compliance	07/24/2023	A2D	Fluoride, total	mg/L	0.150	0.705	TBD
APW12	UD	Compliance	10/11/2023	A2DR	Fluoride, total	mg/L	0.220	0.705	TBD
APW12	UD	Compliance	03/15/2023	A2	pH (field)	SU	6.5	6.6/8.0	Confirmed
APW12	UD	Compliance	04/26/2023	A2R	pH (field)	SU	6.5	6.6/8.0	Confirmed
APW12	UD	Compliance	07/24/2023	A2D	pH (field)	SU	6.4	6.6/8.0	TBD
APW12	UD	Compliance	10/11/2023	A2DR	pH (field)	SU	6.1	6.6/8.0	TBD
APW12	UD	Compliance	03/15/2023	A2	Sulfate, total	mg/L	56.0	15.0	Confirmed
APW12	UD	Compliance	04/26/2023	A2R	Sulfate, total	mg/L	540	15.0	Confirmed
APW12	UD	Compliance	07/24/2023	A2D	Sulfate, total	mg/L	655	15.0	TBD
APW12	UD	Compliance	10/11/2023	A2DR	Sulfate, total	mg/L	712	15.0	TBD
APW12	UD	Compliance	03/15/2023	A2	Total Dissolved Solids	mg/L	1,400	1000	Confirmed
APW12	UD	Compliance	04/26/2023	A2R	Total Dissolved Solids	mg/L	1,500 J+	1000	Confirmed
APW12	UD	Compliance	07/24/2023	A2D	Total Dissolved Solids	mg/L	1,700	1000	TBD
APW12	UD	Compliance	10/11/2023	A2DR	Total Dissolved Solids	mg/L	1,740	1000	TBD
APW13	UA	Compliance	03/14/2023	A2	Boron, total	mg/L	0.120	0.145	No Exceedance
APW13	UA	Compliance	04/27/2023	A2R	Boron, total	mg/L	0.110 J+	0.145	No Exceedance
APW13	UA	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.143	0.145	TBD
APW13	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.102	0.145	TBD
APW13	UA	Compliance	03/14/2023	A2	Calcium, total	mg/L	120	66.5	Confirmed
APW13	UA	Compliance	04/27/2023	A2R	Calcium, total	mg/L	120	66.5	Confirmed
APW13	UA	Compliance	07/31/2023	A2D	Calcium, total	mg/L	121	66.5	TBD
APW13	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	120	66.5	TBD
APW13	UA	Compliance	03/14/2023	A2	Chloride, total	mg/L	47.0	58.0	No Exceedance
APW13	UA	Compliance	04/27/2023	A2R	Chloride, total	mg/L	51.0	58.0	No Exceedance
APW13	UA	Compliance	07/31/2023	A2D	Chloride, total	mg/L	48.0	58.0	TBD
APW13	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	53.0	58.0	TBD
APW13	UA	Compliance	03/14/2023	A2	Fluoride, total	mg/L	0.376	0.705	No Exceedance
APW13	UA	Compliance	04/27/2023	A2R	Fluoride, total	mg/L	0.394	0.705	No Exceedance
APW13	UA	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.420	0.705	TBD
APW13	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.440	0.705	TBD
APW13	UA	Compliance	03/14/2023	A2	pH (field)	SU	7.2	6.6/8.0	No Exceedance
APW13	UA	Compliance	04/27/2023	A2R	pH (field)	SU	7.3	6.6/8.0	No Exceedance
APW13	UA	Compliance	07/31/2023	A2D	pH (field)	SU	6.9	6.6/8.0	TBD
APW13	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.2	6.6/8.0	TBD
APW13	UA	Compliance	03/14/2023	A2	Sulfate, total	mg/L	240	15.0	Confirmed
APW13	UA	Compliance	04/27/2023	A2R	Sulfate, total	mg/L	250	15.0	Confirmed
APW13	UA	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	233	15.0	TBD
APW13	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	234	15.0	TBD
APW13	UA	Compliance	03/14/2023	A2	Total Dissolved Solids	mg/L	890	1000	No Exceedance
APW13	UA	Compliance	04/27/2023	A2R	Total Dissolved Solids	mg/L	940	1000	No Exceedance
APW13	UA	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	875	1000	TBD
APW13	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	936	1000	TBD
APW14	UA	Compliance	03/14/2023	A2	Boron, total	mg/L	0.110	0.145	No Exceedance
APW14	UA	Compliance	04/28/2023	A2R	Boron, total	mg/L	0.100 J+	0.145	No Exceedance
APW14	UA	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.103	0.145	TBD
APW14	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0888	0.145	TBD

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

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW14	UA	Compliance	03/14/2023	A2	Calcium, total	mg/L	140	66.5	Confirmed
APW14	UA	Compliance	04/28/2023	A2R	Calcium, total	mg/L	130	66.5	Confirmed
APW14	UA	Compliance	07/31/2023	A2D	Calcium, total	mg/L	133	66.5	TBD
APW14	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	138	66.5	TBD
APW14	UA	Compliance	03/14/2023	A2	Chloride, total	mg/L	39.0	58.0	No Exceedance
APW14	UA	Compliance	04/28/2023	A2R	Chloride, total	mg/L	46.0	58.0	No Exceedance
APW14	UA	Compliance	07/31/2023	A2D	Chloride, total	mg/L	42.0	58.0	TBD
APW14	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	41.0	58.0	TBD
APW14	UA	Compliance	03/14/2023	A2	Fluoride, total	mg/L	0.278	0.705	No Exceedance
APW14	UA	Compliance	04/28/2023	A2R	Fluoride, total	mg/L	0.243 J	0.705	No Exceedance
APW14	UA	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.310	0.705	TBD
APW14	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.330	0.705	TBD
APW14	UA	Compliance	03/14/2023	A2	pH (field)	SU	7.4	6.6/8.0	No Exceedance
APW14	UA	Compliance	04/28/2023	A2R	pH (field)	SU	7.3	6.6/8.0	No Exceedance
APW14	UA	Compliance	07/31/2023	A2D	pH (field)	SU	7.0	6.6/8.0	TBD
APW14	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.3	6.6/8.0	TBD
APW14	UA	Compliance	03/14/2023	A2	Sulfate, total	mg/L	330	15.0	Confirmed
APW14	UA	Compliance	04/28/2023	A2R	Sulfate, total	mg/L	380	15.0	Confirmed
APW14	UA	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	370	15.0	TBD
APW14	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	358	15.0	TBD
APW14	UA	Compliance	03/14/2023	A2	Total Dissolved Solids	mg/L	960	1000	No Exceedance
APW14	UA	Compliance	04/28/2023	A2R	Total Dissolved Solids	mg/L	980	1000	No Exceedance
APW14	UA	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	990	1000	TBD
APW14	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	990	1000	TBD
APW15	UA	Compliance	03/14/2023	A2	Boron, total	mg/L	0.180	0.145	Exceedance Not Confirmed
APW15	UA	Compliance	04/26/2023	A2R	Boron, total	mg/L	0.130	0.145	No Exceedance
APW15	UA	Compliance	08/01/2023	A2D	Boron, total	mg/L	0.117	0.145	TBD
APW15	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.123	0.145	TBD
APW15	UA	Compliance	03/14/2023	A2	Calcium, total	mg/L	99.0	66.5	Confirmed
APW15	UA	Compliance	04/26/2023	A2R	Calcium, total	mg/L	91.0	66.5	Confirmed
APW15	UA	Compliance	08/01/2023	A2D	Calcium, total	mg/L	100	66.5	TBD
APW15	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	96.0	66.5	TBD
APW15	UA	Compliance	03/14/2023	A2	Chloride, total	mg/L	230	58.0	Confirmed
APW15	UA	Compliance	04/26/2023	A2R	Chloride, total	mg/L	270	58.0	Confirmed
APW15	UA	Compliance	08/01/2023	A2D	Chloride, total	mg/L	235	58.0	TBD
APW15	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	227	58.0	TBD
APW15	UA	Compliance	03/14/2023	A2	Fluoride, total	mg/L	0.348	0.705	No Exceedance
APW15	UA	Compliance	04/26/2023	A2R	Fluoride, total	mg/L	0.402	0.705	No Exceedance
APW15	UA	Compliance	08/01/2023	A2D	Fluoride, total	mg/L	0.460	0.705	TBD
APW15	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.480	0.705	TBD
APW15	UA	Compliance	03/14/2023	A2	pH (field)	SU	7.2	6.6/8.0	No Exceedance
APW15	UA	Compliance	04/26/2023	A2R	pH (field)	SU	7.2	6.6/8.0	No Exceedance
APW15	UA	Compliance	08/01/2023	A2D	pH (field)	SU	6.9	6.6/8.0	TBD
APW15	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.1	6.6/8.0	TBD
APW15	UA	Compliance	03/14/2023	A2	Sulfate, total	mg/L	0.6 J	15.0	No Exceedance
APW15	UA	Compliance	04/26/2023	A2R	Sulfate, total	mg/L	0.4 J	15.0	No Exceedance

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

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW15	UA	Compliance	08/01/2023	A2D	Sulfate, total	mg/L	16.0 J+	15.0	TBD
APW15	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	12.0	15.0	TBD
APW15	UA	Compliance	03/14/2023	A2	Total Dissolved Solids	mg/L	1,100 J	1000	Confirmed
APW15	UA	Compliance	04/26/2023	A2R	Total Dissolved Solids	mg/L	1,100 J+	1000	Confirmed
APW15	UA	Compliance	08/01/2023	A2D	Total Dissolved Solids	mg/L	1,120	1000	TBD
APW15	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	1,140	1000	TBD
APW16	UA	Compliance	03/15/2023	A2	Boron, total	mg/L	0.150	0.145	Exceedance Not Confirmed
APW16	UA	Compliance	04/25/2023	A2R	Boron, total	mg/L	0.130	0.145	No Exceedance
APW16	UA	Compliance	07/31/2023	A2D	Boron, total	mg/L	0.147	0.145	TBD
APW16	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.126	0.145	TBD
APW16	UA	Compliance	03/15/2023	A2	Calcium, total	mg/L	95.0	66.5	Confirmed
APW16	UA	Compliance	04/25/2023	A2R	Calcium, total	mg/L	96.0	66.5	Confirmed
APW16	UA	Compliance	07/31/2023	A2D	Calcium, total	mg/L	94.0	66.5	TBD
APW16	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	92.9	66.5	TBD
APW16	UA	Compliance	03/15/2023	A2	Chloride, total	mg/L	65.0	58.0	Confirmed
APW16	UA	Compliance	04/25/2023	A2R	Chloride, total	mg/L	71.0	58.0	Confirmed
APW16	UA	Compliance	07/31/2023	A2D	Chloride, total	mg/L	64.0	58.0	TBD
APW16	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	69.0	58.0	TBD
APW16	UA	Compliance	03/15/2023	A2	Fluoride, total	mg/L	0.630	0.705	No Exceedance
APW16	UA	Compliance	04/25/2023	A2R	Fluoride, total	mg/L	0.606	0.705	No Exceedance
APW16	UA	Compliance	07/31/2023	A2D	Fluoride, total	mg/L	0.720	0.705	TBD
APW16	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.770	0.705	TBD
APW16	UA	Compliance	03/15/2023	A2	pH (field)	SU	7.4	6.6/8.0	No Exceedance
APW16	UA	Compliance	04/25/2023	A2R	pH (field)	SU	7.7	6.6/8.0	No Exceedance
APW16	UA	Compliance	07/31/2023	A2D	pH (field)	SU	7.1	6.6/8.0	TBD
APW16	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.4	6.6/8.0	TBD
APW16	UA	Compliance	03/15/2023	A2	Sulfate, total	mg/L	0.93 J	15.0	No Exceedance
APW16	UA	Compliance	04/25/2023	A2R	Sulfate, total	mg/L	0.65 J	15.0	No Exceedance
APW16	UA	Compliance	07/31/2023	A2D	Sulfate, total	mg/L	14.0 J+	15.0	TBD
APW16	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	8 J	15.0	TBD
APW16	UA	Compliance	03/15/2023	A2	Total Dissolved Solids	mg/L	1,300	1000	Exceedance Not Confirmed
APW16	UA	Compliance	04/25/2023	A2R	Total Dissolved Solids	mg/L	800	1000	No Exceedance
APW16	UA	Compliance	07/31/2023	A2D	Total Dissolved Solids	mg/L	665	1000	TBD
APW16	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	768	1000	TBD
APW17	UA	Compliance	03/15/2023	A2	Boron, total	mg/L	0.0970	0.145	No Exceedance
APW17	UA	Compliance	04/25/2023	A2R	Boron, total	mg/L	0.0830	0.145	No Exceedance
APW17	UA	Compliance	07/25/2023	A2D	Boron, total	mg/L	0.121	0.145	TBD
APW17	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0788	0.145	TBD
APW17	UA	Compliance	03/15/2023	A2	Calcium, total	mg/L	110	66.5	Confirmed
APW17	UA	Compliance	04/25/2023	A2R	Calcium, total	mg/L	110	66.5	Confirmed
APW17	UA	Compliance	07/25/2023	A2D	Calcium, total	mg/L	106	66.5	TBD
APW17	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	107	66.5	TBD
APW17	UA	Compliance	03/15/2023	A2	Chloride, total	mg/L	51.0	58.0	No Exceedance
APW17	UA	Compliance	04/25/2023	A2R	Chloride, total	mg/L	56.0	58.0	No Exceedance
APW17	UA	Compliance	07/25/2023	A2D	Chloride, total	mg/L	53.0	58.0	TBD

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

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
APW17	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	59.0	58.0	TBD
APW17	UA	Compliance	03/15/2023	A2	Fluoride, total	mg/L	0.449	0.705	No Exceedance
APW17	UA	Compliance	04/25/2023	A2R	Fluoride, total	mg/L	0.483	0.705	No Exceedance
APW17	UA	Compliance	07/25/2023	A2D	Fluoride, total	mg/L	0.580	0.705	TBD
APW17	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.540	0.705	TBD
APW17	UA	Compliance	03/15/2023	A2	pH (field)	SU	7.5	6.6/8.0	No Exceedance
APW17	UA	Compliance	04/25/2023	A2R	pH (field)	SU	7.6	6.6/8.0	No Exceedance
APW17	UA	Compliance	07/25/2023	A2D	pH (field)	SU	6.9	6.6/8.0	TBD
APW17	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	7.5	6.6/8.0	TBD
APW17	UA	Compliance	03/15/2023	A2	Sulfate, total	mg/L	49.0	15.0	Confirmed
APW17	UA	Compliance	04/25/2023	A2R	Sulfate, total	mg/L	52.0	15.0	Confirmed
APW17	UA	Compliance	07/25/2023	A2D	Sulfate, total	mg/L	56.0 J+	15.0	TBD
APW17	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	64.0	15.0	TBD
APW17	UA	Compliance	03/15/2023	A2	Total Dissolved Solids	mg/L	660	1000	No Exceedance
APW17	UA	Compliance	04/25/2023	A2R	Total Dissolved Solids	mg/L	700	1000	No Exceedance
APW17	UA	Compliance	07/25/2023	A2D	Total Dissolved Solids	mg/L	670	1000	TBD
APW17	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	692	1000	TBD
APW18	UA	Compliance	03/15/2023	A2	Boron, total	mg/L	0.120	0.145	No Exceedance
APW18	UA	Compliance	04/25/2023	A2R	Boron, total	mg/L	0.100	0.145	No Exceedance
APW18	UA	Compliance	07/25/2023	A2D	Boron, total	mg/L	0.128	0.145	TBD
APW18	UA	Compliance	10/10/2023	A2DR	Boron, total	mg/L	0.0971	0.145	TBD
APW18	UA	Compliance	03/15/2023	A2	Calcium, total	mg/L	75.0	66.5	Confirmed
APW18	UA	Compliance	04/25/2023	A2R	Calcium, total	mg/L	75.0	66.5	Confirmed
APW18	UA	Compliance	07/25/2023	A2D	Calcium, total	mg/L	73.2	66.5	TBD
APW18	UA	Compliance	10/10/2023	A2DR	Calcium, total	mg/L	75.5	66.5	TBD
APW18	UA	Compliance	03/15/2023	A2	Chloride, total	mg/L	23.0	58.0	No Exceedance
APW18	UA	Compliance	04/25/2023	A2R	Chloride, total	mg/L	24.0	58.0	No Exceedance
APW18	UA	Compliance	07/25/2023	A2D	Chloride, total	mg/L	26.0 J-	58.0	TBD
APW18	UA	Compliance	10/10/2023	A2DR	Chloride, total	mg/L	23.0	58.0	TBD
APW18	UA	Compliance	03/15/2023	A2	Fluoride, total	mg/L	0.505	0.705	No Exceedance
APW18	UA	Compliance	04/25/2023	A2R	Fluoride, total	mg/L	0.518	0.705	No Exceedance
APW18	UA	Compliance	07/25/2023	A2D	Fluoride, total	mg/L	0.630	0.705	TBD
APW18	UA	Compliance	10/10/2023	A2DR	Fluoride, total	mg/L	0.590	0.705	TBD
APW18	UA	Compliance	03/15/2023	A2	pH (field)	SU	7.8	6.6/8.0	No Exceedance
APW18	UA	Compliance	04/25/2023	A2R	pH (field)	SU	7.8	6.6/8.0	No Exceedance
APW18	UA	Compliance	07/25/2023	A2D	pH (field)	SU	7.2	6.6/8.0	TBD
APW18	UA	Compliance	10/10/2023	A2DR	pH (field)	SU	8.1	6.6/8.0	TBD
APW18	UA	Compliance	03/15/2023	A2	Sulfate, total	mg/L	51.0	15.0	Confirmed
APW18	UA	Compliance	04/25/2023	A2R	Sulfate, total	mg/L	52.0	15.0	Confirmed
APW18	UA	Compliance	07/25/2023	A2D	Sulfate, total	mg/L	49.0 J+	15.0	TBD
APW18	UA	Compliance	10/10/2023	A2DR	Sulfate, total	mg/L	49.0	15.0	TBD
APW18	UA	Compliance	03/15/2023	A2	Total Dissolved Solids	mg/L	630 J	1000	No Exceedance
APW18	UA	Compliance	04/25/2023	A2R	Total Dissolved Solids	mg/L	660	1000	No Exceedance
APW18	UA	Compliance	07/25/2023	A2D	Total Dissolved Solids	mg/L	535	1000	TBD
APW18	UA	Compliance	10/10/2023	A2DR	Total Dissolved Solids	mg/L	614	1000	TBD

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

Notes:
HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

UD = Upper Drift

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

TBD: To be determined in 2024.

No Exceedance: No exceedance of the background.

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

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

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

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

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
APW05	B	03/14/2023	A2	0.00043 U	0.0180	0.280	0.00059 U	0.00074 U	0.0028 U	0.0012 J	0.468	0.00150	0.0094 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW05	B	04/27/2023	A2R	0.00043 U	0.0300	0.250	0.00059 U	0.00074 U	0.0037 J	0.00048 J	0.498	0.00068 J	0.0087 J	0.00014 U	0.00910	0.841	0.00074 U	0.00038 U
APW05	B	07/24/2023	A2D	0.0004 U	0.0293	0.312	0.0002 U	0.0002 U	0.0013 J	0.001 UJ	0.480	0.0006 U	0.00880	0.00006 U	0.0114	0.522	0.0006 U	0.001 U
APW05	B	10/10/2023	A2DR	0.0004 U	0.0323	0.333	0.0002 U	0.0002 U	0.0012 J	0.0002 J	0.530	0.0006 U	0.00900	0.00006 U	0.0127	0.915	0.0006 U	0.001 U
APW06	B	03/15/2023	A2	0.00043 U	0.00490	0.210	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.493	0.00022 U	0.01 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW06	B	04/26/2023	A2R	0.00043 U	0.00920	0.240	0.00059 U	0.00074 U	0.00790 J+	0.0011 J	0.489	0.00170	0.012 J	0.00019 J	0.00770	1.20	0.00074 U	0.00038 U
APW06	B	07/25/2023	A2D	0.0004 U	0.00470	0.254	0.0002 U	0.0002 U	0.0009 J	0.001 UJ	0.580	0.0006 U	0.00960	0.00013 J	0.00710	1.12	0.0006 U	0.001 U
APW06	B	10/10/2023	A2DR	0.0004 U	0.00830	0.304	0.0002 U	0.0002 U	0.0007 U	0.0002 J	0.550	0.0006 U	0.0106	0.00006 U	0.0116	0.577	0.0006 U	0.001 U
APW02	C	03/15/2023	A2	0.00043 U	0.00150	0.0200	0.00059 U	0.00074 U	0.0028 U	0.0013 J	0.191 J	0.00130	0.100	0.00014 U	--	--	0.00074 U	0.00038 U
APW02	C	04/27/2023	A2R	0.00043 U	0.00140	0.0240	0.00059 U	0.00074 U	0.00400	0.0012 J	0.172 J	0.00039 J	0.0980	0.00018 J	0.00160	0.768	0.00074 U	0.00038 U
APW02	C	08/17/2023	A2D	0.0004 U	0.0009 J	0.00760	0.0004 J	0.0002 U	0.00220	0.00160 J+	0.210	0.0006 U	0.190 J	0.00008 U	0.00150	1.20	0.0006 U	0.001 U
APW02	C	10/10/2023	A2DR	0.0004 U	0.0006 J	0.0136	0.0002 U	0.0002 U	0.0009 J	0.0004 J	0.230	0.0006 U	0.105	0.00006 U	0.00160	0.843	0.0006 U	0.001 U
APW03	C	03/14/2023	A2	0.00043 U	0.00069 U	0.0730	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.192 J	0.00022 U	0.0096 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW03	C	04/25/2023	A2R	0.00043 U	0.00069 U	0.0780	0.00059 U	0.00074 U	0.00720	0.00048 U	0.04 U	0.00022 U	0.01 J	0.00014 U	0.0008 J	1.02	0.00074 U	0.00038 U
APW03	C	07/31/2023	A2D	0.0004 U	0.0007 J	0.0942	0.0002 U	0.0002 U	0.0014 J	0.001 UJ	0.230	0.0006 U	0.0139	0.00006 U	0.0013 J	0.698	0.0006 U	0.001 U
APW03	C	10/10/2023	A2DR	0.0004 U	0.0007 J	0.110	0.0002 U	0.0002 U	0.00300	0.0003 J	0.260	0.0006 U	0.0111	0.00006 U	0.0009 J	0.564	0.0006 U	0.001 U
APW04	C	03/14/2023	A2	0.00043 U	0.00180	0.0370	0.00059 U	0.00140	0.0031 J	0.0019 J	0.133 J	0.00180	0.019 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW04	C	04/25/2023	A2R	0.00043 U	0.00089 J	0.0220	0.00059 U	0.00074 U	0.0440	0.00081 J	0.051 J	0.00063 J	0.018 J	0.00014 U	0.00180	1.00	0.00074 U	0.00038 U
APW04	C	07/31/2023	A2D	0.0005 J	0.0009 J	0.0247	0.0002 U	0.0002 U	0.0121	0.001 UJ	0.180	0.0006 U	0.0225	0.00006 U	0.0014 J	0.749	0.0006 U	0.001 U
APW04	C	10/10/2023	A2DR	0.0004 U	0.0006 J	0.0200	0.0002 U	0.0002 U	0.00290	0.0002 J	0.200	0.0006 U	0.0218	0.00006 U	0.001 J	1.08	0.0006 U	0.001 U
APW05S	C	03/14/2023	A2	0.00043 U	0.00380	0.0920	0.00059 U	0.00120	0.0410	0.00370	0.478	0.00330	0.0370	0.00014 U	--	--	0.00074 U	0.00038 U
APW05S	C	04/26/2023	A2R	0.00043 U	0.00093 J	0.0350	0.00059 U	0.00074 U	0.0031 J+	0.00083 J	0.365	0.00022 J	0.0330	0.00014 U	0.00130	0.141	0.00074 U	0.00038 U
APW05S	C	07/25/2023	A2D	0.0004 U	0.0009 J	0.0328	0.0002 U	0.0002 U	0.0011 J	0.00200	0.410	0.0006 U	0.0350	0.00006 U	0.0013 J	0.706	0.0006 U	0.001 U
APW05S	C	10/10/2023	A2DR	0.0004 U	0.00140	0.0478	0.0002 U	0.0002 U	0.00260	0.0007 J	0.410	0.0006 U	0.0328	0.00006 U	0.00330	0.624	0.0006 U	0.001 U
APW07	C	01/31/2023	A2	0.00043 U	0.0170	0.540	0.00059 U	0.00074 U	0.0100	0.00250	0.409	0.00340	0.005 U	0.00014 U	--	2.09	0.00074 U	0.00038 U
APW07	C	04/27/2023	A2R	0.00043 U	0.0180	0.510	0.00059 U	0.00074 U	0.0170	0.00360	0.409	0.00550	0.0058 J	0.00014 U	0.00340	2.09	0.00074 U	0.00038 U
APW07	C	07/25/2023	A2D	0.0004 U	0.0146	0.519	0.0002 U	0.0002 U	0.00150 J	0.001 UJ	0.430	0.0007 J	0.00340	0.00006 U	0.00200	3.03	0.0006 U	0.001 U

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

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
APW07	C	10/10/2023	A2DR	0.0004 U	0.0225	0.808	0.0002 U	0.0002 U	0.00170	0.0002 J	0.420	0.0006 U	0.0025 J	0.00006 U	0.00310	2.80	0.0006 U	0.001 U
APW08	C	01/31/2023	A2	0.00043 U	0.0240	0.500	0.00059 U	0.00074 U	0.0028 U	0.00088 J	0.430	0.00067 J	0.005 U	0.00014 U	--	1.94	0.00074 U	0.00038 U
APW08	C	04/26/2023	A2R	0.00043 U	0.0260	0.470	0.00059 U	0.00074 U	0.00760 J+	0.00220	0.404	0.00330	0.0057 J	0.00015 J	0.00440	0.941	0.00074 U	0.00038 U
APW08	C	07/31/2023	A2D	0.0004 U	0.0308	0.651	0.0002 U	0.0002 U	0.00180	0.001 UJ	0.440	0.0007 J	0.0027 J	0.00006 U	0.00520	0.779	0.0006 U	0.001 U
APW08	C	10/10/2023	A2DR	0.0004 U	0.0366	0.777	0.0002 U	0.0002 U	0.001 J	0.0002 J	0.480	0.0006 U	0.0022 J	0.00006 U	0.00580	2.04	0.0006 U	0.001 U
APW09	C	01/31/2023	A2	0.00043 U	0.0300	0.470	0.00059 U	0.00074 U	0.0110	0.00250	0.468	0.00520	0.008 J	0.00014 U	--	2.91	0.00074 U	0.00038 U
APW09	C	04/27/2023	A2R	0.00043 U	0.0290	0.430	0.00059 U	0.00074 U	0.00420	0.00068 J	0.482	0.00130	0.0072 J	0.00014 U	0.00390	2.00	0.00074 U	0.00038 U
APW09	C	07/31/2023	A2D	0.0007 J	0.0355	0.564	0.0002 U	0.0002 U	0.0013 J	0.001 UJ	0.500	0.0006 U	0.00750	0.00006 U	0.00420	1.57	0.0006 U	0.001 U
APW09	C	10/10/2023	A2DR	0.00180	0.0114	0.406	0.0002 U	0.0003 J	0.00330	0.0005 J	0.630	0.0008 J	0.00660	0.00006 U	0.0165	0.571	0.0006 U	0.001 U
APW10	C	01/31/2023	A2	0.00043 U	0.0110	0.0590	0.00059 U	0.00074 U	0.003 J	0.00210	0.314	0.00200	0.0200	0.00014 U	--	0.590	0.00074 U	0.00038 U
APW10	C	04/27/2023	A2R	0.00043 U	0.00780	0.0260	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.217 J	0.00022 U	0.018 J	0.00014 U	0.00650	0.316	0.00074 U	0.00038 U
APW10	C	07/31/2023	A2D	0.0004 U	0.00940	0.0326	0.0002 U	0.0002 U	0.0011 J	0.001 UJ	0.320	0.0006 U	0.0215	0.00006 U	0.00830	0.588	0.0006 U	0.001 U
APW10	C	10/10/2023	A2DR	0.0004 U	0.0120	0.0397	0.0002 U	0.0002 U	0.0009 J	0.0002 J	0.340	0.0006 U	0.0182	0.00006 U	0.0112	1.01	0.0006 U	0.001 U
APW11	C	03/15/2023	A2	0.00043 U	0.00810	0.0450	0.00059 U	0.00074 U	0.0028 U	0.0013 J	0.311	0.00240	0.019 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW11	C	04/26/2023	A2R	0.00043 U	0.00440	0.0430	0.00059 U	0.00074 U	0.00700 J+	0.00210	0.283	0.00630	0.0200	0.00014 J	0.00430	2.17	0.00074 U	0.00038 U
APW11	C	07/24/2023	A2D	0.0004 U	0.00540	0.0492	0.0002 U	0.0002 U	0.00390	0.00130 J+	0.320	0.00410	0.0199	0.00006 U	0.00560	1.96	0.0006 U	0.001 U
APW11	C	10/10/2023	A2DR	0.0004 U	0.00490	0.0448	0.0002 U	0.0002 U	0.0014 J	0.0003 J	0.370	0.0008 J	0.0201	0.00006 U	0.00510	0.854	0.0006 U	0.001 U
APW12	C	03/15/2023	A2	0.00043 U	0.00200	0.0380	0.00059 U	0.00074 U	0.0028 U	0.0018 J	0.121 J	0.00110	0.0240	0.00014 U	--	--	0.00074 U	0.00038 U
APW12	C	04/26/2023	A2R	0.00043 U	0.00140	0.0280	0.00059 U	0.00074 U	0.003 U	0.0012 J	0.04 U	0.00022 U	0.0240	0.00014 U	0.00074 U	0.0586	0.00074 U	0.00038 U
APW12	C	07/24/2023	A2D	0.0004 U	0.0008 J	0.0317	0.0002 U	0.0002 U	0.0007 U	0.00140 J+	0.150	0.0006 U	0.0275	0.00006 U	0.0013 J	0.629	0.0006 U	0.001 U
APW12	C	10/11/2023	A2DR	0.0004 U	0.0008 J	0.0345	0.0002 U	0.0002 U	0.0008 J	0.00120	0.220	0.0006 U	0.0365	0.00006 U	0.0006 U	0.891	0.0006 U	0.001 U
APW13	C	03/14/2023	A2	0.00043 U	0.00200	0.0570	0.00059 U	0.00074 U	0.0028 U	0.00051 J	0.376	0.00041 J	0.0250	0.00014 U	--	--	0.00074 U	0.00038 U
APW13	C	04/27/2023	A2R	0.00043 U	0.00400	0.0500	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.394	0.00022 U	0.0210	0.00014 U	0.00670	0.651	0.00074 U	0.00038 U
APW13	C	07/31/2023	A2D	0.0004 U	0.00530	0.0720	0.0002 U	0.0002 U	0.0008 J	0.001 UJ	0.420	0.0006 U	0.0230	0.00006 U	0.00980	0.715	0.0006 U	0.001 U
APW13	C	10/10/2023	A2DR	0.0004 U	0.00440	0.0642	0.0002 U	0.0002 U	0.0007 U	0.0001 U	0.440	0.0006 U	0.0240	0.00006 U	0.00870	0.663	0.0006 U	0.001 U
APW14	C	03/14/2023	A2	0.00053 J	0.0100	0.110	0.00059 U	0.00074 U	0.0028 U	0.0012 J	0.278	0.00180	0.018 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW14	C	04/28/2023	A2R	0.00043 U	0.00550	0.0650	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.243 J	0.00022 U	0.016 J	0.00014 U	0.00400	0.381	0.00074 U	0.00038 U

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

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
APW14	C	07/31/2023	A2D	0.0004 U	0.00780	0.0649	0.0002 U	0.0002 U	0.001 J	0.001 UJ	0.310	0.0006 U	0.0207	0.00006 U	0.00490	0.660	0.0006 U	0.001 U
APW14	C	10/10/2023	A2DR	0.0004 U	0.00940	0.0758	0.0002 U	0.0002 U	0.00150 J	0.0003 J	0.330	0.0006 U	0.0205	0.00006 U	0.00580	1.57	0.0006 U	0.001 U
APW15	C	03/14/2023	A2	0.00047 J	0.0240	0.560	0.00059 U	0.00074 U	0.0028 U	0.00220	0.348	0.00340	0.0066 J	0.00014 U	--	--	0.00074 U	0.00038 U
APW15	C	04/26/2023	A2R	0.00043 U	0.0210	0.530	0.00059 U	0.00074 U	0.00640 J+	0.0011 J	0.402	0.00120	0.0064 J	0.00014 U	0.00650	1.97	0.00074 U	0.00038 U
APW15	C	08/01/2023	A2D	0.0004 U	0.0259	0.640	0.0002 U	0.0002 U	0.00420	0.00140 J+	0.460	0.00240	0.00610	0.00007 J	0.00560	1.82	0.0006 U	0.001 U
APW15	C	10/10/2023	A2DR	0.0004 U	0.0319	0.708	0.0002 U	0.0002 U	0.00710	0.00160	0.480	0.00270	0.00730	0.00006 U	0.00730	3.51	0.0006 U	0.001 U
APW16	C	03/15/2023	A2	0.00043 U	0.0220	0.520	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.630	0.00049 J	0.005 U	0.00014 U	--	--	0.00074 U	0.00038 U
APW16	C	04/25/2023	A2R	0.00043 U	0.0210	0.540	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.606	0.00036 J	0.005 U	0.00014 U	0.00074 U	2.05	0.00074 U	0.00038 U
APW16	C	07/31/2023	A2D	0.0004 U	0.0271	0.658	0.0002 U	0.0002 U	0.0009 J	0.001 UJ	0.720	0.0006 U	0.0025 J	0.00006 U	0.0006 U	1.74	0.0006 U	0.001 U
APW16	C	10/10/2023	A2DR	0.0004 U	0.0253	0.597	0.0002 U	0.0002 U	0.0009 J	0.0002 J	0.770	0.0006 U	0.0029 J	0.00006 U	0.0006 U	2.55	0.0006 U	0.001 U
APW17	C	03/15/2023	A2	0.00043 U	0.0240	0.600	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.449	0.00064 J	0.005 U	0.00014 U	--	--	0.00074 U	0.00038 U
APW17	C	04/25/2023	A2R	0.00043 U	0.0200	0.550	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.483	0.00022 U	0.005 U	0.00014 U	0.00530	1.42	0.00074 U	0.00038 U
APW17	C	07/25/2023	A2D	0.0004 U	0.0274	0.609	0.0002 U	0.0002 U	0.0007 U	0.001 UJ	0.580	0.0006 U	0.0025 J	0.00006 U	0.00520	1.92	0.0006 U	0.001 U
APW17	C	10/10/2023	A2DR	0.0004 U	0.0320	0.741	0.0002 U	0.0002 U	0.001 J	0.0003 J	0.540	0.0006 U	0.0024 J	0.00006 U	0.0172	2.30	0.0006 U	0.001 U
APW18	C	03/15/2023	A2	0.00043 U	0.00330	0.360	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.505	0.00044 J	0.005 U	0.00014 U	--	--	0.00074 U	0.00038 U
APW18	C	04/25/2023	A2R	0.00043 U	0.00270	0.350	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.518	0.00022 U	0.0052 J	0.00014 U	0.00290	1.33	0.00074 U	0.00038 U
APW18	C	07/25/2023	A2D	0.0004 U	0.00230	0.368	0.0002 U	0.0002 U	0.0007 U	0.001 UJ	0.630	0.0006 U	0.00520	0.00008 J	0.00320	2.23	0.0006 U	0.001 U
APW18	C	10/10/2023	A2DR	0.0004 U	0.00260	0.443	0.0002 U	0.0002 U	0.001 J	0.0002 J	0.590	0.00330	0.00520	0.00006 U	0.00430	1.26	0.0006 U	0.001 U

Notes:
– = no data available
ID = identification
mg/L = milligrams per liter
pCi/L = picoCuries per liter
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
Well Type:

B = Background

C = Compliance

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

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UPL (log-transformed)	0.145
Calcium (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UPL (log-transformed)	66.5
Chloride (mg/L)	12/15/2015 - 06/13/2017	16	0	Non-parametric UPL	58.0
Fluoride (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UPL	0.705
pH (field) (SU)	12/15/2015 - 06/13/2017	16	0	Parametric LPL/UPL	6.6/8.0
Sulfate (mg/L)	12/15/2015 - 06/13/2017	16	38	Non-parametric UPL	15.0
Total Dissolved Solids (mg/L)	12/15/2015 - 06/13/2017	16	0	Non-parametric UPL	1000

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

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

Parameter	Background					MCL/HBL	Groundwater Protection Standard*	Groundwater Protection Standard Source
	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Value			
Antimony (mg/L)	12/15/2015 - 06/13/2017	16	100	All ND - Last Reporting Limit	0.003	0.006	0.006	MCL/HBL
Arsenic (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UTL	0.0274	0.010	0.0274	Background
Barium (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UTL	0.257	2.0	2.0	MCL/HBL
Beryllium (mg/L)	12/15/2015 - 06/13/2017	16	94	Non-parametric UTL	0.00250	0.004	0.004	MCL/HBL
Cadmium (mg/L)	12/15/2015 - 06/13/2017	16	88	Non-parametric UTL	0.00170	0.005	0.005	MCL/HBL
Chromium (mg/L)	12/15/2015 - 06/13/2017	16	94	Non-parametric UTL	0.00400	0.1	0.1	MCL/HBL
Cobalt (mg/L)	12/15/2015 - 06/13/2017	16	94	Non-parametric UTL	0.00200	0.006	0.006	MCL/HBL
Fluoride (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UTL	0.744	4.0	4.0	MCL/HBL
Lead (mg/L)	12/15/2015 - 06/13/2017	16	56	Non-parametric UTL	0.00250	0.015	0.015	MCL/HBL
Lithium (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UTL	0.0233	0.04	0.04	MCL/HBL
Mercury (mg/L)	12/15/2015 - 06/13/2017	16	81	Non-parametric UTL	0.00200	0.002	0.002	MCL/HBL
Molybdenum (mg/L)	12/15/2015 - 06/13/2017	16	0	Parametric UTL	0.0382	0.1	0.1	MCL/HBL
Radium 226 + Radium 228 (pCi/L)	12/15/2015 - 06/13/2017	16	0	Parametric UTL	1.54	5	5	MCL/HBL
Selenium (mg/L)	12/15/2015 - 06/13/2017	16	81	Non-parametric UTL	0.00600	0.05	0.05	MCL/HBL
Thallium (mg/L)	12/15/2015 - 06/13/2017	16	88	Non-parametric UTL	0.00250	0.002	0.00250	Background

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

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW02	UD	A2	Antimony, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW02	UD	A2R	Antimony, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW02	UD	A2	Arsenic, total	mg/L	02/17/2021 - 03/15/2023	9	78	CI around median	0.001	0.0274	Background	No Exceedance
APW02	UD	A2R	Arsenic, total	mg/L	02/17/2021 - 04/27/2023	10	70	CI around median	0.001	0.0274	Background	No Exceedance
APW02	UD	A2	Barium, total	mg/L	02/17/2021 - 03/15/2023	9	0	CB around linear reg	-0.00838	2.0	MCL/HBL	No Exceedance
APW02	UD	A2R	Barium, total	mg/L	02/17/2021 - 04/27/2023	10	0	CB around linear reg	0.00275	2.0	MCL/HBL	No Exceedance
APW02	UD	A2	Beryllium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW02	UD	A2R	Beryllium, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW02	UD	A2	Cadmium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW02	UD	A2R	Cadmium, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW02	UD	A2	Chromium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW02	UD	A2R	Chromium, total	mg/L	02/17/2021 - 04/27/2023	10	90	Most recent sample	0.004	0.1	MCL/HBL	No Exceedance
APW02	UD	A2	Cobalt, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW02	UD	A2R	Cobalt, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW02	UD	A2	Fluoride, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
APW02	UD	A2R	Fluoride, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
APW02	UD	A2	Lead, total	mg/L	02/17/2021 - 03/15/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW02	UD	A2R	Lead, total	mg/L	02/17/2021 - 04/27/2023	10	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW02	UD	A2	Lithium, total	mg/L	02/17/2021 - 03/15/2023	9	0	CI around geomean	0.0876	0.04	MCL/HBL	Confirmed
APW02	UD	A2R	Lithium, total	mg/L	02/17/2021 - 04/27/2023	10	0	CI around geomean	0.0888	0.04	MCL/HBL	Confirmed
APW02	UD	A2	Mercury, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW02	UD	A2R	Mercury, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW02	UD	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW02	UD	A2R	Molybdenum, total	mg/L	02/17/2021 - 04/27/2023	9	67	CI around median	0.001	0.1	MCL/HBL	No Exceedance
APW02	UD	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW02	UD	A2R	Radium 226 + Radium 228, total	pCi/L	02/17/2021 - 04/27/2023	9	0	CI around mean	0.227	5	MCL/HBL	No Exceedance
APW02	UD	A2	Selenium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW02	UD	A2R	Selenium, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW02	UD	A2	Thallium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW02	UD	A2R	Thallium, total	mg/L	02/17/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW03	UD	A2	Antimony, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW03	UD	A2R	Antimony, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW03	UD	A2	Arsenic, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.0274	Background	No Exceedance
APW03	UD	A2R	Arsenic, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.0274	Background	No Exceedance
APW03	UD	A2	Barium, total	mg/L	02/18/2021 - 03/14/2023	9	0	CI around mean	0.0635	2.0	MCL/HBL	No Exceedance
APW03	UD	A2R	Barium, total	mg/L	02/18/2021 - 04/25/2023	10	0	CI around mean	0.0648	2.0	MCL/HBL	No Exceedance
APW03	UD	A2	Beryllium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW03	UD	A2R	Beryllium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW03	UD	A2	Cadmium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW03	UD	A2R	Cadmium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW03	UD	A2	Chromium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW03	UD	A2R	Chromium, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW03	UD	A2	Cobalt, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW03	UD	A2R	Cobalt, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW03	UD	A2	Fluoride, total	mg/L	02/18/2021 - 03/14/2023	9	89	CI around median	0.25	4.0	MCL/HBL	No Exceedance
APW03	UD	A2R	Fluoride, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.25	4.0	MCL/HBL	No Exceedance
APW03	UD	A2	Lead, total	mg/L	02/18/2021 - 03/14/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW03	UD	A2R	Lead, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW03	UD	A2	Lithium, total	mg/L	02/18/2021 - 03/14/2023	9	33	CI around geomean	0.0188	0.04	MCL/HBL	No Exceedance
APW03	UD	A2R	Lithium, total	mg/L	02/18/2021 - 04/25/2023	10	40	CI around median	0.02	0.04	MCL/HBL	No Exceedance
APW03	UD	A2	Mercury, total	mg/L	02/18/2021 - 03/14/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW03	UD	A2R	Mercury, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW03	UD	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW03	UD	A2R	Molybdenum, total	mg/L	02/18/2021 - 04/25/2023	9	11	CI around mean	0.000992	0.1	MCL/HBL	No Exceedance

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2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW03	UD	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW03	UD	A2R	Radium 226 + Radium 228, total	pCi/L	02/18/2021 - 04/25/2023	9	0	CI around mean	0.123	5	MCL/HBL	No Exceedance
APW03	UD	A2	Selenium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW03	UD	A2R	Selenium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW03	UD	A2	Thallium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW03	UD	A2R	Thallium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW04	UD	A2	Antimony, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW04	UD	A2R	Antimony, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW04	UD	A2	Arsenic, total	mg/L	02/18/2021 - 03/14/2023	9	33	CI around mean	0.000902	0.0274	Background	No Exceedance
APW04	UD	A2R	Arsenic, total	mg/L	02/18/2021 - 04/25/2023	10	40	CI around geomean	0.000941	0.0274	Background	No Exceedance
APW04	UD	A2	Barium, total	mg/L	02/18/2021 - 03/14/2023	9	0	CI around mean	0.0175	2.0	MCL/HBL	No Exceedance
APW04	UD	A2R	Barium, total	mg/L	02/18/2021 - 04/25/2023	10	0	CI around mean	0.0181	2.0	MCL/HBL	No Exceedance
APW04	UD	A2	Beryllium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW04	UD	A2R	Beryllium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW04	UD	A2	Cadmium, total	mg/L	02/18/2021 - 03/14/2023	9	89	CI around median	0.001	0.005	MCL/HBL	No Exceedance
APW04	UD	A2R	Cadmium, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.001	0.005	MCL/HBL	No Exceedance
APW04	UD	A2	Chromium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW04	UD	A2R	Chromium, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW04	UD	A2	Cobalt, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW04	UD	A2R	Cobalt, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW04	UD	A2	Fluoride, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
APW04	UD	A2R	Fluoride, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
APW04	UD	A2	Lead, total	mg/L	02/18/2021 - 03/14/2023	9	56	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW04	UD	A2R	Lead, total	mg/L	02/18/2021 - 04/25/2023	10	60	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW04	UD	A2	Lithium, total	mg/L	02/18/2021 - 03/14/2023	9	22	CI around median	0.02	0.04	MCL/HBL	No Exceedance
APW04	UD	A2R	Lithium, total	mg/L	02/18/2021 - 04/25/2023	10	30	CI around median	0.02	0.04	MCL/HBL	No Exceedance
APW04	UD	A2	Mercury, total	mg/L	02/18/2021 - 03/14/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW04	UD	A2R	Mercury, total	mg/L	02/18/2021 - 04/25/2023	10	90	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW04	UD	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW04	UD	A2R	Molybdenum, total	mg/L	02/18/2021 - 04/25/2023	9	89	CI around median	0.001	0.1	MCL/HBL	No Exceedance
APW04	UD	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW04	UD	A2R	Radium 226 + Radium 228, total	pCi/L	02/18/2021 - 04/25/2023	9	0	CI around mean	0.0207	5	MCL/HBL	No Exceedance
APW04	UD	A2	Selenium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW04	UD	A2R	Selenium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW04	UD	A2	Thallium, total	mg/L	02/18/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW04	UD	A2R	Thallium, total	mg/L	02/18/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW05S	UD	A2	Antimony, total	mg/L	02/17/2021 - 03/14/2023	8	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW05S	UD	A2R	Antimony, total	mg/L	02/17/2021 - 04/26/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW05S	UD	A2	Arsenic, total	mg/L	02/17/2021 - 03/14/2023	8	25	CB around linear reg	0.00243	0.0274	Background	No Exceedance
APW05S	UD	A2R	Arsenic, total	mg/L	02/17/2021 - 04/26/2023	9	33	CI around mean	0.00105	0.0274	Background	No Exceedance
APW05S	UD	A2	Barium, total	mg/L	02/17/2021 - 03/14/2023	8	0	CI around median	0.048	2.0	MCL/HBL	No Exceedance
APW05S	UD	A2R	Barium, total	mg/L	02/17/2021 - 04/26/2023	9	0	CI around median	0.048	2.0	MCL/HBL	No Exceedance
APW05S	UD	A2	Beryllium, total	mg/L	02/17/2021 - 03/14/2023	8	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW05S	UD	A2R	Beryllium, total	mg/L	02/17/2021 - 04/26/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW05S	UD	A2	Cadmium, total	mg/L	02/17/2021 - 03/14/2023	8	88	CI around median	0.001	0.005	MCL/HBL	No Exceedance
APW05S	UD	A2R	Cadmium, total	mg/L	02/17/2021 - 04/26/2023	9	89	CI around median	0.001	0.005	MCL/HBL	No Exceedance
APW05S	UD	A2	Chromium, total	mg/L	02/17/2021 - 03/14/2023	8	88	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW05S	UD	A2R	Chromium, total	mg/L	02/17/2021 - 04/26/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW05S	UD	A2	Cobalt, total	mg/L	02/17/2021 - 03/14/2023	8	25	CI around geomean	0.00183	0.006	MCL/HBL	No Exceedance
APW05S	UD	A2R	Cobalt, total	mg/L	02/17/2021 - 04/26/2023	9	33	CI around geomean	0.00185	0.006	MCL/HBL	No Exceedance
APW05S	UD	A2	Fluoride, total	mg/L	02/17/2021 - 03/14/2023	8	0	CI around mean	0.347	4.0	MCL/HBL	No Exceedance
APW05S	UD	A2R	Fluoride, total	mg/L	02/17/2021 - 04/26/2023	9	0	CI around mean	0.349	4.0	MCL/HBL	No Exceedance
APW05S	UD	A2	Lead, total	mg/L	02/17/2021 - 03/14/2023	8	88	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW05S	UD	A2R	Lead, total	mg/L	02/17/2021 - 04/26/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance

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DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW05S	UD	A2	Lithium, total	mg/L	02/17/2021 - 03/14/2023	8	0	CI around median	0.037	0.04	MCL/HBL	No Exceedance
APW05S	UD	A2R	Lithium, total	mg/L	02/17/2021 - 04/26/2023	9	0	CI around geomean	0.0332	0.04	MCL/HBL	No Exceedance
APW05S	UD	A2	Mercury, total	mg/L	02/17/2021 - 03/14/2023	8	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW05S	UD	A2R	Mercury, total	mg/L	02/17/2021 - 04/26/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW05S	UD	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW05S	UD	A2R	Molybdenum, total	mg/L	02/17/2021 - 04/26/2023	8	0	CB around linear reg	-0.000835	0.1	MCL/HBL	No Exceedance
APW05S	UD	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW05S	UD	A2R	Radium 226 + Radium 228, total	pCi/L	02/17/2021 - 04/26/2023	8	0	CI around geomean	0.128	5	MCL/HBL	No Exceedance
APW05S	UD	A2	Selenium, total	mg/L	02/17/2021 - 03/14/2023	8	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW05S	UD	A2R	Selenium, total	mg/L	02/17/2021 - 04/26/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW05S	UD	A2	Thallium, total	mg/L	02/17/2021 - 03/14/2023	8	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW05S	UD	A2R	Thallium, total	mg/L	02/17/2021 - 04/26/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW07	UA	A2	Antimony, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW07	UA	A2R	Antimony, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW07	UA	A2	Arsenic, total	mg/L	12/15/2015 - 01/31/2023	11	0	CB around linear reg	0.0112	0.0274	Background	No Exceedance
APW07	UA	A2R	Arsenic, total	mg/L	12/15/2015 - 04/27/2023	12	0	CB around linear reg	0.0127	0.0274	Background	No Exceedance
APW07	UA	A2	Barium, total	mg/L	12/15/2015 - 01/31/2023	11	0	CB around linear reg	0.455	2.0	MCL/HBL	No Exceedance
APW07	UA	A2R	Barium, total	mg/L	12/15/2015 - 04/27/2023	12	0	CB around linear reg	0.465	2.0	MCL/HBL	No Exceedance
APW07	UA	A2	Beryllium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW07	UA	A2R	Beryllium, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW07	UA	A2	Cadmium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW07	UA	A2R	Cadmium, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW07	UA	A2	Chromium, total	mg/L	12/15/2015 - 01/31/2023	11	82	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW07	UA	A2R	Chromium, total	mg/L	12/15/2015 - 04/27/2023	12	75	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW07	UA	A2	Cobalt, total	mg/L	12/15/2015 - 01/31/2023	10	90	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW07	UA	A2R	Cobalt, total	mg/L	12/15/2015 - 04/27/2023	11	82	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW07	UA	A2	Fluoride, total	mg/L	12/15/2015 - 01/31/2023	21	4.8	CI around mean	0.357	4.0	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW07	UA	A2R	Fluoride, total	mg/L	12/15/2015 - 04/27/2023	22	4.5	CI around mean	0.36	4.0	MCL/HBL	No Exceedance
APW07	UA	A2	Lead, total	mg/L	12/15/2015 - 01/31/2023	11	64	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW07	UA	A2R	Lead, total	mg/L	12/15/2015 - 04/27/2023	12	58	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW07	UA	A2	Lithium, total	mg/L	12/15/2015 - 01/31/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW07	UA	A2R	Lithium, total	mg/L	12/15/2015 - 04/27/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW07	UA	A2	Mercury, total	mg/L	12/15/2015 - 01/31/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW07	UA	A2R	Mercury, total	mg/L	12/15/2015 - 04/27/2023	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW07	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW07	UA	A2R	Molybdenum, total	mg/L	12/15/2015 - 04/27/2023	11	0	CB around linear reg	-0.00442	0.1	MCL/HBL	No Exceedance
APW07	UA	A2	Radium 226 + Radium 228, total	pCi/L	12/15/2015 - 01/31/2023	11	0	CI around mean	1.26	5	MCL/HBL	No Exceedance
APW07	UA	A2R	Radium 226 + Radium 228, total	pCi/L	12/15/2015 - 04/27/2023	12	0	CI around mean	1.31	5	MCL/HBL	No Exceedance
APW07	UA	A2	Selenium, total	mg/L	12/15/2015 - 01/31/2023	11	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW07	UA	A2R	Selenium, total	mg/L	12/15/2015 - 04/27/2023	12	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW07	UA	A2	Thallium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW07	UA	A2R	Thallium, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW08	UA	A2	Antimony, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW08	UA	A2R	Antimony, total	mg/L	12/15/2015 - 04/26/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW08	UA	A2	Arsenic, total	mg/L	12/15/2015 - 01/31/2023	11	0	CB around linear reg	0.0168	0.0274	Background	No Exceedance
APW08	UA	A2R	Arsenic, total	mg/L	12/15/2015 - 04/26/2023	12	0	CB around linear reg	0.0188	0.0274	Background	No Exceedance
APW08	UA	A2	Barium, total	mg/L	12/15/2015 - 01/31/2023	11	0	CB around linear reg	0.439	2.0	MCL/HBL	No Exceedance
APW08	UA	A2R	Barium, total	mg/L	12/15/2015 - 04/26/2023	12	0	CB around linear reg	0.444	2.0	MCL/HBL	No Exceedance
APW08	UA	A2	Beryllium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW08	UA	A2R	Beryllium, total	mg/L	12/15/2015 - 04/26/2023	11	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW08	UA	A2	Cadmium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW08	UA	A2R	Cadmium, total	mg/L	12/15/2015 - 04/26/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW08	UA	A2	Chromium, total	mg/L	12/15/2015 - 01/31/2023	11	64	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW08	UA	A2R	Chromium, total	mg/L	12/15/2015 - 04/26/2023	12	58	CI around median	0.004	0.1	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW08	UA	A2	Cobalt, total	mg/L	12/15/2015 - 01/31/2023	10	80	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW08	UA	A2R	Cobalt, total	mg/L	12/15/2015 - 04/26/2023	11	73	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW08	UA	A2	Fluoride, total	mg/L	12/15/2015 - 01/31/2023	21	9.5	CI around median	0.373	4.0	MCL/HBL	No Exceedance
APW08	UA	A2R	Fluoride, total	mg/L	12/15/2015 - 04/26/2023	22	9.1	CI around median	0.373	4.0	MCL/HBL	No Exceedance
APW08	UA	A2	Lead, total	mg/L	12/15/2015 - 01/31/2023	11	55	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW08	UA	A2R	Lead, total	mg/L	12/15/2015 - 04/26/2023	12	50	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW08	UA	A2	Lithium, total	mg/L	12/15/2015 - 01/31/2023	11	64	CI around median	0.01	0.04	MCL/HBL	No Exceedance
APW08	UA	A2R	Lithium, total	mg/L	12/15/2015 - 04/26/2023	12	67	CI around median	0.01	0.04	MCL/HBL	No Exceedance
APW08	UA	A2	Mercury, total	mg/L	12/15/2015 - 01/31/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW08	UA	A2R	Mercury, total	mg/L	12/15/2015 - 04/26/2023	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW08	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW08	UA	A2R	Molybdenum, total	mg/L	12/15/2015 - 04/26/2023	11	0	CI around mean	0.00453	0.1	MCL/HBL	No Exceedance
APW08	UA	A2	Radium 226 + Radium 228, total	pCi/L	12/15/2015 - 01/31/2023	11	0	CI around mean	1.05	5	MCL/HBL	No Exceedance
APW08	UA	A2R	Radium 226 + Radium 228, total	pCi/L	12/15/2015 - 04/26/2023	12	0	CI around mean	1.03	5	MCL/HBL	No Exceedance
APW08	UA	A2	Selenium, total	mg/L	12/15/2015 - 01/31/2023	11	91	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW08	UA	A2R	Selenium, total	mg/L	12/15/2015 - 04/26/2023	12	92	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW08	UA	A2	Thallium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW08	UA	A2R	Thallium, total	mg/L	12/15/2015 - 04/26/2023	11	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW09	UA	A2	Antimony, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW09	UA	A2R	Antimony, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW09	UA	A2	Arsenic, total	mg/L	12/15/2015 - 01/31/2023	11	0	CB around linear reg	0.0202	0.0274	Background	No Exceedance
APW09	UA	A2R	Arsenic, total	mg/L	12/15/2015 - 04/27/2023	12	0	CB around linear reg	0.0223	0.0274	Background	No Exceedance
APW09	UA	A2	Barium, total	mg/L	12/15/2015 - 01/31/2023	11	0	CI around mean	0.262	2.0	MCL/HBL	No Exceedance
APW09	UA	A2R	Barium, total	mg/L	12/15/2015 - 04/27/2023	12	0	CI around mean	0.277	2.0	MCL/HBL	No Exceedance
APW09	UA	A2	Beryllium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW09	UA	A2R	Beryllium, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW09	UA	A2	Cadmium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW09	UA	A2R	Cadmium, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW09	UA	A2	Chromium, total	mg/L	12/15/2015 - 01/31/2023	11	73	CB around T-S line	0.004	0.1	MCL/HBL	No Exceedance
APW09	UA	A2R	Chromium, total	mg/L	12/15/2015 - 04/27/2023	12	67	CB around T-S line	0.004	0.1	MCL/HBL	No Exceedance
APW09	UA	A2	Cobalt, total	mg/L	12/15/2015 - 01/31/2023	10	90	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW09	UA	A2R	Cobalt, total	mg/L	12/15/2015 - 04/27/2023	11	91	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW09	UA	A2	Fluoride, total	mg/L	12/15/2015 - 01/31/2023	22	4.5	CI around mean	0.446	4.0	MCL/HBL	No Exceedance
APW09	UA	A2R	Fluoride, total	mg/L	12/15/2015 - 04/27/2023	23	4.3	CI around mean	0.448	4.0	MCL/HBL	No Exceedance
APW09	UA	A2	Lead, total	mg/L	12/15/2015 - 01/31/2023	11	55	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW09	UA	A2R	Lead, total	mg/L	12/15/2015 - 04/27/2023	12	50	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW09	UA	A2	Lithium, total	mg/L	12/15/2015 - 01/31/2023	11	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW09	UA	A2R	Lithium, total	mg/L	12/15/2015 - 04/27/2023	12	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW09	UA	A2	Mercury, total	mg/L	12/15/2015 - 01/31/2023	11	82	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW09	UA	A2R	Mercury, total	mg/L	12/15/2015 - 04/27/2023	12	83	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW09	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW09	UA	A2R	Molybdenum, total	mg/L	12/15/2015 - 04/27/2023	11	0	CB around linear reg	-0.00854	0.1	MCL/HBL	No Exceedance
APW09	UA	A2	Radium 226 + Radium 228, total	pCi/L	12/15/2015 - 01/31/2023	11	0	CI around geomean	0.759	5	MCL/HBL	No Exceedance
APW09	UA	A2R	Radium 226 + Radium 228, total	pCi/L	12/15/2015 - 04/27/2023	12	0	CI around geomean	0.828	5	MCL/HBL	No Exceedance
APW09	UA	A2	Selenium, total	mg/L	12/15/2015 - 01/31/2023	11	91	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW09	UA	A2R	Selenium, total	mg/L	12/15/2015 - 04/27/2023	12	92	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW09	UA	A2	Thallium, total	mg/L	12/15/2015 - 01/31/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW09	UA	A2R	Thallium, total	mg/L	12/15/2015 - 04/27/2023	11	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW10	UA	A2	Antimony, total	mg/L	12/16/2015 - 01/31/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW10	UA	A2R	Antimony, total	mg/L	12/16/2015 - 04/27/2023	13	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW10	UA	A2	Arsenic, total	mg/L	12/16/2015 - 01/31/2023	13	0	CI around mean	0.00573	0.0274	Background	No Exceedance
APW10	UA	A2R	Arsenic, total	mg/L	12/16/2015 - 04/27/2023	14	0	CI around mean	0.0059	0.0274	Background	No Exceedance
APW10	UA	A2	Barium, total	mg/L	12/16/2015 - 01/31/2023	13	0	CI around mean	0.0289	2.0	MCL/HBL	No Exceedance
APW10	UA	A2R	Barium, total	mg/L	12/16/2015 - 04/27/2023	14	0	CI around mean	0.0286	2.0	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW10	UA	A2	Beryllium, total	mg/L	12/16/2015 - 01/31/2023	12	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW10	UA	A2R	Beryllium, total	mg/L	12/16/2015 - 04/27/2023	13	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW10	UA	A2	Cadmium, total	mg/L	12/16/2015 - 01/31/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW10	UA	A2R	Cadmium, total	mg/L	12/16/2015 - 04/27/2023	13	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW10	UA	A2	Chromium, total	mg/L	12/16/2015 - 01/31/2023	13	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW10	UA	A2R	Chromium, total	mg/L	12/16/2015 - 04/27/2023	14	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW10	UA	A2	Cobalt, total	mg/L	12/16/2015 - 01/31/2023	12	92	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW10	UA	A2R	Cobalt, total	mg/L	12/16/2015 - 04/27/2023	13	92	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW10	UA	A2	Fluoride, total	mg/L	12/16/2015 - 01/31/2023	23	17	CI around mean	0.301	4.0	MCL/HBL	No Exceedance
APW10	UA	A2R	Fluoride, total	mg/L	12/16/2015 - 04/27/2023	24	21	CI around mean	0.298	4.0	MCL/HBL	No Exceedance
APW10	UA	A2	Lead, total	mg/L	12/16/2015 - 01/31/2023	13	85	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW10	UA	A2R	Lead, total	mg/L	12/16/2015 - 04/27/2023	14	86	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW10	UA	A2	Lithium, total	mg/L	12/16/2015 - 01/31/2023	13	0	CI around mean	0.0214	0.04	MCL/HBL	No Exceedance
APW10	UA	A2R	Lithium, total	mg/L	12/16/2015 - 04/27/2023	14	7.1	CB around linear reg	0.0132	0.04	MCL/HBL	No Exceedance
APW10	UA	A2	Mercury, total	mg/L	12/16/2015 - 01/31/2023	13	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW10	UA	A2R	Mercury, total	mg/L	12/16/2015 - 04/27/2023	14	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW10	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW10	UA	A2R	Molybdenum, total	mg/L	12/16/2015 - 04/27/2023	13	0	CB around linear reg	0.00524	0.1	MCL/HBL	No Exceedance
APW10	UA	A2	Radium 226 + Radium 228, total	pCi/L	12/16/2015 - 01/31/2023	13	0	CI around mean	0.461	5	MCL/HBL	No Exceedance
APW10	UA	A2R	Radium 226 + Radium 228, total	pCi/L	12/16/2015 - 04/27/2023	14	0	CI around mean	0.442	5	MCL/HBL	No Exceedance
APW10	UA	A2	Selenium, total	mg/L	12/16/2015 - 01/31/2023	13	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW10	UA	A2R	Selenium, total	mg/L	12/16/2015 - 04/27/2023	14	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW10	UA	A2	Thallium, total	mg/L	12/16/2015 - 01/31/2023	12	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW10	UA	A2R	Thallium, total	mg/L	12/16/2015 - 04/27/2023	13	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW11	UA	A2	Antimony, total	mg/L	02/18/2021 - 03/15/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW11	UA	A2R	Antimony, total	mg/L	02/18/2021 - 04/26/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW11	UA	A2	Arsenic, total	mg/L	02/18/2021 - 03/15/2023	9	0	CI around geomean	0.00159	0.0274	Background	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW11	UA	A2R	Arsenic, total	mg/L	02/18/2021 - 04/26/2023	10	0	CI around mean	0.0015	0.0274	Background	No Exceedance
APW11	UA	A2	Barium, total	mg/L	02/18/2021 - 03/15/2023	9	0	CB around T-S line	-0.628	2.0	MCL/HBL	No Exceedance
APW11	UA	A2R	Barium, total	mg/L	02/18/2021 - 04/26/2023	10	0	CB around T-S line	-0.566	2.0	MCL/HBL	No Exceedance
APW11	UA	A2	Beryllium, total	mg/L	02/18/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW11	UA	A2R	Beryllium, total	mg/L	02/18/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW11	UA	A2	Cadmium, total	mg/L	02/18/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW11	UA	A2R	Cadmium, total	mg/L	02/18/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW11	UA	A2	Chromium, total	mg/L	02/18/2021 - 03/15/2023	9	78	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW11	UA	A2R	Chromium, total	mg/L	02/18/2021 - 04/26/2023	10	70	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW11	UA	A2	Cobalt, total	mg/L	02/18/2021 - 03/15/2023	9	78	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW11	UA	A2R	Cobalt, total	mg/L	02/18/2021 - 04/26/2023	10	70	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW11	UA	A2	Fluoride, total	mg/L	02/18/2021 - 03/15/2023	9	56	CI around median	0.25	4.0	MCL/HBL	No Exceedance
APW11	UA	A2R	Fluoride, total	mg/L	02/18/2021 - 04/26/2023	10	50	CI around geomean	0.245	4.0	MCL/HBL	No Exceedance
APW11	UA	A2	Lead, total	mg/L	02/18/2021 - 03/15/2023	9	67	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW11	UA	A2R	Lead, total	mg/L	02/18/2021 - 04/26/2023	10	60	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW11	UA	A2	Lithium, total	mg/L	02/18/2021 - 03/15/2023	9	11	CI around mean	0.0171	0.04	MCL/HBL	No Exceedance
APW11	UA	A2R	Lithium, total	mg/L	02/18/2021 - 04/26/2023	10	10	CI around mean	0.0175	0.04	MCL/HBL	No Exceedance
APW11	UA	A2	Mercury, total	mg/L	02/18/2021 - 03/15/2023	9	78	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW11	UA	A2R	Mercury, total	mg/L	02/18/2021 - 04/26/2023	10	80	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW11	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW11	UA	A2R	Molybdenum, total	mg/L	02/18/2021 - 04/26/2023	9	0	CB around T-S line	-0.0661	0.1	MCL/HBL	No Exceedance
APW11	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW11	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/18/2021 - 04/26/2023	9	0	CI around mean	0.424	5	MCL/HBL	No Exceedance
APW11	UA	A2	Selenium, total	mg/L	02/18/2021 - 03/15/2023	9	78	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW11	UA	A2R	Selenium, total	mg/L	02/18/2021 - 04/26/2023	10	80	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW11	UA	A2	Thallium, total	mg/L	02/18/2021 - 03/15/2023	9	89	CI around median	0.001	0.00250	Background	No Exceedance
APW11	UA	A2R	Thallium, total	mg/L	02/18/2021 - 04/26/2023	10	90	CI around median	0.001	0.00250	Background	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW12	UD	A2	Antimony, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW12	UD	A2R	Antimony, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW12	UD	A2	Arsenic, total	mg/L	02/17/2021 - 03/15/2023	9	0	CI around mean	0.00159	0.0274	Background	No Exceedance
APW12	UD	A2R	Arsenic, total	mg/L	02/17/2021 - 04/26/2023	10	0	CI around mean	0.00155	0.0274	Background	No Exceedance
APW12	UD	A2	Barium, total	mg/L	02/17/2021 - 03/15/2023	9	0	CI around mean	0.0348	2.0	MCL/HBL	No Exceedance
APW12	UD	A2R	Barium, total	mg/L	02/17/2021 - 04/26/2023	10	0	CB around linear reg	0.0133	2.0	MCL/HBL	No Exceedance
APW12	UD	A2	Beryllium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW12	UD	A2R	Beryllium, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW12	UD	A2	Cadmium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW12	UD	A2R	Cadmium, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW12	UD	A2	Chromium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW12	UD	A2R	Chromium, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW12	UD	A2	Cobalt, total	mg/L	02/17/2021 - 03/15/2023	9	11	CB around linear reg	-0.00468	0.006	MCL/HBL	No Exceedance
APW12	UD	A2R	Cobalt, total	mg/L	02/17/2021 - 04/26/2023	10	20	CB around linear reg	-0.00198	0.006	MCL/HBL	No Exceedance
APW12	UD	A2	Fluoride, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
APW12	UD	A2R	Fluoride, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
APW12	UD	A2	Lead, total	mg/L	02/17/2021 - 03/15/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW12	UD	A2R	Lead, total	mg/L	02/17/2021 - 04/26/2023	10	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW12	UD	A2	Lithium, total	mg/L	02/17/2021 - 03/15/2023	9	0	CI around mean	0.0239	0.04	MCL/HBL	No Exceedance
APW12	UD	A2R	Lithium, total	mg/L	02/17/2021 - 04/26/2023	10	0	CI around geomean	0.0244	0.04	MCL/HBL	No Exceedance
APW12	UD	A2	Mercury, total	mg/L	02/17/2021 - 03/15/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW12	UD	A2R	Mercury, total	mg/L	02/17/2021 - 04/26/2023	10	90	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW12	UD	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW12	UD	A2R	Molybdenum, total	mg/L	02/17/2021 - 04/26/2023	9	44	CI around geomean	0.000964	0.1	MCL/HBL	No Exceedance
APW12	UD	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW12	UD	A2R	Radium 226 + Radium 228, total	pCi/L	02/17/2021 - 04/26/2023	9	0	CI around geomean	0.14	5	MCL/HBL	No Exceedance
APW12	UD	A2	Selenium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW12	UD	A2R	Selenium, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW12	UD	A2	Thallium, total	mg/L	02/17/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW12	UD	A2R	Thallium, total	mg/L	02/17/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW13	UA	A2	Antimony, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW13	UA	A2R	Antimony, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW13	UA	A2	Arsenic, total	mg/L	02/22/2021 - 03/14/2023	9	0	CI around mean	0.00301	0.0274	Background	No Exceedance
APW13	UA	A2R	Arsenic, total	mg/L	02/22/2021 - 04/27/2023	10	0	CI around mean	0.00314	0.0274	Background	No Exceedance
APW13	UA	A2	Barium, total	mg/L	02/22/2021 - 03/14/2023	9	0	CI around mean	0.0501	2.0	MCL/HBL	No Exceedance
APW13	UA	A2R	Barium, total	mg/L	02/22/2021 - 04/27/2023	10	0	CI around mean	0.05	2.0	MCL/HBL	No Exceedance
APW13	UA	A2	Beryllium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW13	UA	A2R	Beryllium, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW13	UA	A2	Cadmium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW13	UA	A2R	Cadmium, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW13	UA	A2	Chromium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW13	UA	A2R	Chromium, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW13	UA	A2	Cobalt, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW13	UA	A2R	Cobalt, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW13	UA	A2	Fluoride, total	mg/L	02/22/2021 - 03/14/2023	9	11	CI around mean	0.27	4.0	MCL/HBL	No Exceedance
APW13	UA	A2R	Fluoride, total	mg/L	02/22/2021 - 04/27/2023	10	10	CI around mean	0.285	4.0	MCL/HBL	No Exceedance
APW13	UA	A2	Lead, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
APW13	UA	A2R	Lead, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
APW13	UA	A2	Lithium, total	mg/L	02/22/2021 - 03/14/2023	9	0	CI around mean	0.0278	0.04	MCL/HBL	No Exceedance
APW13	UA	A2R	Lithium, total	mg/L	02/22/2021 - 04/27/2023	10	0	CI around mean	0.0262	0.04	MCL/HBL	No Exceedance
APW13	UA	A2	Mercury, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW13	UA	A2R	Mercury, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW13	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW13	UA	A2R	Molybdenum, total	mg/L	02/22/2021 - 04/27/2023	9	0	CB around linear reg	-0.00498	0.1	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW13	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW13	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/22/2021 - 04/27/2023	9	0	CI around mean	0.245	5	MCL/HBL	No Exceedance
APW13	UA	A2	Selenium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW13	UA	A2R	Selenium, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW13	UA	A2	Thallium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW13	UA	A2R	Thallium, total	mg/L	02/22/2021 - 04/27/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW14	UA	A2	Antimony, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW14	UA	A2R	Antimony, total	mg/L	02/22/2021 - 04/28/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW14	UA	A2	Arsenic, total	mg/L	02/22/2021 - 03/14/2023	9	0	CI around mean	0.005	0.0274	Background	No Exceedance
APW14	UA	A2R	Arsenic, total	mg/L	02/22/2021 - 04/28/2023	10	0	CI around mean	0.00506	0.0274	Background	No Exceedance
APW14	UA	A2	Barium, total	mg/L	02/22/2021 - 03/14/2023	9	0	CI around mean	0.0783	2.0	MCL/HBL	No Exceedance
APW14	UA	A2R	Barium, total	mg/L	02/22/2021 - 04/28/2023	10	0	CI around mean	0.0752	2.0	MCL/HBL	No Exceedance
APW14	UA	A2	Beryllium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW14	UA	A2R	Beryllium, total	mg/L	02/22/2021 - 04/28/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW14	UA	A2	Cadmium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW14	UA	A2R	Cadmium, total	mg/L	02/22/2021 - 04/28/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW14	UA	A2	Chromium, total	mg/L	02/22/2021 - 03/14/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW14	UA	A2R	Chromium, total	mg/L	02/22/2021 - 04/28/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW14	UA	A2	Cobalt, total	mg/L	02/22/2021 - 03/14/2023	9	89	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW14	UA	A2R	Cobalt, total	mg/L	02/22/2021 - 04/28/2023	10	90	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW14	UA	A2	Fluoride, total	mg/L	02/22/2021 - 03/14/2023	9	22	CI around mean	0.271	4.0	MCL/HBL	No Exceedance
APW14	UA	A2R	Fluoride, total	mg/L	02/22/2021 - 04/28/2023	10	30	CI around mean	0.266	4.0	MCL/HBL	No Exceedance
APW14	UA	A2	Lead, total	mg/L	02/22/2021 - 03/14/2023	9	67	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW14	UA	A2R	Lead, total	mg/L	02/22/2021 - 04/28/2023	10	70	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW14	UA	A2	Lithium, total	mg/L	02/22/2021 - 03/14/2023	9	11	CI around mean	0.0212	0.04	MCL/HBL	No Exceedance
APW14	UA	A2R	Lithium, total	mg/L	02/22/2021 - 04/28/2023	10	20	CB around linear reg	-0.00217	0.04	MCL/HBL	No Exceedance
APW14	UA	A2	Mercury, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance

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DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW14	UA	A2R	Mercury, total	mg/L	02/22/2021 - 04/28/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW14	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW14	UA	A2R	Molybdenum, total	mg/L	02/22/2021 - 04/28/2023	9	0	CB around linear reg	-0.0066	0.1	MCL/HBL	No Exceedance
APW14	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW14	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/22/2021 - 04/28/2023	9	0	CI around mean	0.372	5	MCL/HBL	No Exceedance
APW14	UA	A2	Selenium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW14	UA	A2R	Selenium, total	mg/L	02/22/2021 - 04/28/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW14	UA	A2	Thallium, total	mg/L	02/22/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW14	UA	A2R	Thallium, total	mg/L	02/22/2021 - 04/28/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW15	UA	A2	Antimony, total	mg/L	02/23/2021 - 03/14/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW15	UA	A2R	Antimony, total	mg/L	02/23/2021 - 04/26/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW15	UA	A2	Arsenic, total	mg/L	02/23/2021 - 03/14/2023	9	0	CI around mean	0.0161	0.0274	Background	No Exceedance
APW15	UA	A2R	Arsenic, total	mg/L	02/23/2021 - 04/26/2023	10	0	CI around mean	0.0166	0.0274	Background	No Exceedance
APW15	UA	A2	Barium, total	mg/L	02/23/2021 - 03/14/2023	9	0	CI around mean	0.569	2.0	MCL/HBL	No Exceedance
APW15	UA	A2R	Barium, total	mg/L	02/23/2021 - 04/26/2023	10	0	CI around mean	0.559	2.0	MCL/HBL	No Exceedance
APW15	UA	A2	Beryllium, total	mg/L	02/23/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW15	UA	A2R	Beryllium, total	mg/L	02/23/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW15	UA	A2	Cadmium, total	mg/L	02/23/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW15	UA	A2R	Cadmium, total	mg/L	02/23/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW15	UA	A2	Chromium, total	mg/L	02/23/2021 - 03/14/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW15	UA	A2R	Chromium, total	mg/L	02/23/2021 - 04/26/2023	10	80	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW15	UA	A2	Cobalt, total	mg/L	02/23/2021 - 03/14/2023	9	78	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW15	UA	A2R	Cobalt, total	mg/L	02/23/2021 - 04/26/2023	10	80	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW15	UA	A2	Fluoride, total	mg/L	02/23/2021 - 03/14/2023	9	0	CI around geomean	0.679	4.0	MCL/HBL	No Exceedance
APW15	UA	A2R	Fluoride, total	mg/L	02/23/2021 - 04/26/2023	10	0	CI around geomean	0.6	4.0	MCL/HBL	No Exceedance
APW15	UA	A2	Lead, total	mg/L	02/23/2021 - 03/14/2023	9	56	CI around median	0.001	0.015	MCL/HBL	No Exceedance
APW15	UA	A2R	Lead, total	mg/L	02/23/2021 - 04/26/2023	10	50	CI around median	0.001	0.015	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW15	UA	A2	Lithium, total	mg/L	02/23/2021 - 03/14/2023	9	78	CI around median	0.02	0.04	MCL/HBL	No Exceedance
APW15	UA	A2R	Lithium, total	mg/L	02/23/2021 - 04/26/2023	10	80	CI around median	0.02	0.04	MCL/HBL	No Exceedance
APW15	UA	A2	Mercury, total	mg/L	02/23/2021 - 03/14/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW15	UA	A2R	Mercury, total	mg/L	02/23/2021 - 04/26/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW15	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW15	UA	A2R	Molybdenum, total	mg/L	02/23/2021 - 04/26/2023	9	0	CI around mean	0.00846	0.1	MCL/HBL	No Exceedance
APW15	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW15	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/23/2021 - 04/26/2023	9	0	CI around mean	1.5	5	MCL/HBL	No Exceedance
APW15	UA	A2	Selenium, total	mg/L	02/23/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW15	UA	A2R	Selenium, total	mg/L	02/23/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW15	UA	A2	Thallium, total	mg/L	02/23/2021 - 03/14/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW15	UA	A2R	Thallium, total	mg/L	02/23/2021 - 04/26/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW16	UA	A2	Antimony, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW16	UA	A2R	Antimony, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW16	UA	A2	Arsenic, total	mg/L	02/23/2021 - 03/15/2023	9	0	CI around mean	0.00691	0.0274	Background	No Exceedance
APW16	UA	A2R	Arsenic, total	mg/L	02/23/2021 - 04/25/2023	10	0	CI around mean	0.00767	0.0274	Background	No Exceedance
APW16	UA	A2	Barium, total	mg/L	02/23/2021 - 03/15/2023	9	0	CB around linear reg	0.379	2.0	MCL/HBL	No Exceedance
APW16	UA	A2R	Barium, total	mg/L	02/23/2021 - 04/25/2023	10	0	CB around linear reg	0.434	2.0	MCL/HBL	No Exceedance
APW16	UA	A2	Beryllium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW16	UA	A2R	Beryllium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW16	UA	A2	Cadmium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW16	UA	A2R	Cadmium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW16	UA	A2	Chromium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW16	UA	A2R	Chromium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW16	UA	A2	Cobalt, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW16	UA	A2R	Cobalt, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW16	UA	A2	Fluoride, total	mg/L	02/23/2021 - 03/15/2023	9	0	CI around mean	0.606	4.0	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW16	UA	A2R	Fluoride, total	mg/L	02/23/2021 - 04/25/2023	10	0	CI around mean	0.605	4.0	MCL/HBL	No Exceedance
APW16	UA	A2	Lead, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
APW16	UA	A2R	Lead, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
APW16	UA	A2	Lithium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW16	UA	A2R	Lithium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW16	UA	A2	Mercury, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW16	UA	A2R	Mercury, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW16	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW16	UA	A2R	Molybdenum, total	mg/L	02/23/2021 - 04/25/2023	9	44	CB around linear reg	-0.00408	0.1	MCL/HBL	No Exceedance
APW16	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW16	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/23/2021 - 04/25/2023	9	0	CI around geomean	1.22	5	MCL/HBL	No Exceedance
APW16	UA	A2	Selenium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW16	UA	A2R	Selenium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW16	UA	A2	Thallium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW16	UA	A2R	Thallium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW17	UA	A2	Antimony, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW17	UA	A2R	Antimony, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
APW17	UA	A2	Arsenic, total	mg/L	02/23/2021 - 03/15/2023	9	0	CB around linear reg	0.0195	0.0274	Background	No Exceedance
APW17	UA	A2R	Arsenic, total	mg/L	02/23/2021 - 04/25/2023	10	0	CB around linear reg	0.0181	0.0274	Background	No Exceedance
APW17	UA	A2	Barium, total	mg/L	02/23/2021 - 03/15/2023	9	0	CI around mean	0.57	2.0	MCL/HBL	No Exceedance
APW17	UA	A2R	Barium, total	mg/L	02/23/2021 - 04/25/2023	10	0	CI around mean	0.565	2.0	MCL/HBL	No Exceedance
APW17	UA	A2	Beryllium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW17	UA	A2R	Beryllium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
APW17	UA	A2	Cadmium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW17	UA	A2R	Cadmium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
APW17	UA	A2	Chromium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
APW17	UA	A2R	Chromium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW17	UA	A2	Cobalt, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW17	UA	A2R	Cobalt, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
APW17	UA	A2	Fluoride, total	mg/L	02/23/2021 - 03/15/2023	9	0	CI around mean	0.379	4.0	MCL/HBL	No Exceedance
APW17	UA	A2R	Fluoride, total	mg/L	02/23/2021 - 04/25/2023	10	0	CI around mean	0.394	4.0	MCL/HBL	No Exceedance
APW17	UA	A2	Lead, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
APW17	UA	A2R	Lead, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
APW17	UA	A2	Lithium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW17	UA	A2R	Lithium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW17	UA	A2	Mercury, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW17	UA	A2R	Mercury, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
APW17	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW17	UA	A2R	Molybdenum, total	mg/L	02/23/2021 - 04/25/2023	9	0	CI around median	0.0048	0.1	MCL/HBL	No Exceedance
APW17	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW17	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/23/2021 - 04/25/2023	9	0	CI around mean	0.644	5	MCL/HBL	No Exceedance
APW17	UA	A2	Selenium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW17	UA	A2R	Selenium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
APW17	UA	A2	Thallium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW17	UA	A2R	Thallium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.001	0.00250	Background	No Exceedance
APW18	UA	A2	Antimony, total	mg/L	02/23/2021 - 03/15/2023	9	89	CI around median	0.003	0.006	MCL/HBL	No Exceedance
APW18	UA	A2R	Antimony, total	mg/L	02/23/2021 - 04/25/2023	10	90	CI around median	0.003	0.006	MCL/HBL	No Exceedance
APW18	UA	A2	Arsenic, total	mg/L	02/23/2021 - 03/15/2023	9	11	CI around mean	0.00126	0.0274	Background	No Exceedance
APW18	UA	A2R	Arsenic, total	mg/L	02/23/2021 - 04/25/2023	10	10	CI around mean	0.00144	0.0274	Background	No Exceedance
APW18	UA	A2	Barium, total	mg/L	02/23/2021 - 03/15/2023	9	0	CI around median	0.33	2.0	MCL/HBL	No Exceedance
APW18	UA	A2R	Barium, total	mg/L	02/23/2021 - 04/25/2023	10	0	CI around median	0.33	2.0	MCL/HBL	No Exceedance
APW18	UA	A2	Beryllium, total	mg/L	02/23/2021 - 03/15/2023	9	89	CI around median	0.001	0.004	MCL/HBL	No Exceedance
APW18	UA	A2R	Beryllium, total	mg/L	02/23/2021 - 04/25/2023	10	90	CI around median	0.001	0.004	MCL/HBL	No Exceedance
APW18	UA	A2	Cadmium, total	mg/L	02/23/2021 - 03/15/2023	9	89	CI around median	0.001	0.005	MCL/HBL	No Exceedance

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

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
APW18	UA	A2R	Cadmium, total	mg/L	02/23/2021 - 04/25/2023	10	90	CI around median	0.001	0.005	MCL/HBL	No Exceedance
APW18	UA	A2	Chromium, total	mg/L	02/23/2021 - 03/15/2023	9	67	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW18	UA	A2R	Chromium, total	mg/L	02/23/2021 - 04/25/2023	10	70	CI around median	0.004	0.1	MCL/HBL	No Exceedance
APW18	UA	A2	Cobalt, total	mg/L	02/23/2021 - 03/15/2023	9	67	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW18	UA	A2R	Cobalt, total	mg/L	02/23/2021 - 04/25/2023	10	70	CI around median	0.002	0.006	MCL/HBL	No Exceedance
APW18	UA	A2	Fluoride, total	mg/L	02/23/2021 - 03/15/2023	9	0	CI around mean	0.767	4.0	MCL/HBL	No Exceedance
APW18	UA	A2R	Fluoride, total	mg/L	02/23/2021 - 04/25/2023	10	0	CI around mean	0.677	4.0	MCL/HBL	No Exceedance
APW18	UA	A2	Lead, total	mg/L	02/23/2021 - 03/15/2023	9	44	CB around linear reg	-0.00774	0.015	MCL/HBL	No Exceedance
APW18	UA	A2R	Lead, total	mg/L	02/23/2021 - 04/25/2023	10	50	CB around linear reg	-0.00473	0.015	MCL/HBL	No Exceedance
APW18	UA	A2	Lithium, total	mg/L	02/23/2021 - 03/15/2023	9	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW18	UA	A2R	Lithium, total	mg/L	02/23/2021 - 04/25/2023	10	100	All ND - Last	0.02	0.04	MCL/HBL	No Exceedance
APW18	UA	A2	Mercury, total	mg/L	02/23/2021 - 03/15/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW18	UA	A2R	Mercury, total	mg/L	02/23/2021 - 04/25/2023	10	90	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
APW18	UA	A2	Molybdenum, total	mg/L	--	--	--	--	--	0.1	MCL/HBL	--
APW18	UA	A2R	Molybdenum, total	mg/L	02/23/2021 - 04/25/2023	9	0	CB around linear reg	-0.0288	0.1	MCL/HBL	No Exceedance
APW18	UA	A2	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	--	5	MCL/HBL	--
APW18	UA	A2R	Radium 226 + Radium 228, total	pCi/L	02/23/2021 - 04/25/2023	9	0	CI around mean	1.38	5	MCL/HBL	No Exceedance
APW18	UA	A2	Selenium, total	mg/L	02/23/2021 - 03/15/2023	9	89	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW18	UA	A2R	Selenium, total	mg/L	02/23/2021 - 04/25/2023	10	90	CI around median	0.001	0.05	MCL/HBL	No Exceedance
APW18	UA	A2	Thallium, total	mg/L	02/23/2021 - 03/15/2023	9	78	CI around median	0.001	0.00250	Background	No Exceedance
APW18	UA	A2R	Thallium, total	mg/L	02/23/2021 - 04/25/2023	10	80	CI around median	0.001	0.00250	Background	No Exceedance

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DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT
PRIMARY ASH POND
NEWTON, IL

Notes:
Only SSLs determined in 2023 (see Table A) for 40 C.F.R. § 257 are included
– = no data available
Statistically Significant Level (SSL) Type:

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

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.

GWPS = Groundwater Protection Standard
GWPS Source:

Background = background concentration

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

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

UD = Upper Drift

ID = identification
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
R = resample
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

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FIGURES



COMPLIANCE WELL
BACKGROUND WELL
STAFF GAUGE
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
PROPERTY BOUNDARY

0 500 1,000
Feet

MONITORING WELL LOCATION MAP

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PRIMARY ASH POND

NEWTON POWER PLANT
NEWTON, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\222285\MXD\845_Operating_Permit\Newton\GMP\Figure 2-1_Proposed Monitoring Well Network.mxd

PROJECT: 169000XXXX | DATED: 10/20/2021 | DESIGNER: STOLZSD



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- LEACHATE WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE

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

0 400 800
Feet

POTENTIOMETRIC SURFACE MAP JANUARY 30, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PRIMARY ASH POND
NEWTON POWER PLANT
NEWTON, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2023\Newton\PAP_501\NEW 501 PAP Pot Surface 20230130.mxd

PROJECT: 1690000XXXX | DATED: 9/1/2023 | DESIGNER: egreaves



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

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- LEACHATE WELL
- STAFF GAGE, CCR UNIT
- STAFF GAGE, LAKE
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE

NOTES:

1.ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.

2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

0 400 800 Feet

POTENTIOMETRIC SURFACE MAP APRIL 24, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PRIMARY ASH POND
NEWTON POWER PLANT
NEWTON, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

PROJECT: 1690000XXXX | DATED: 9/20/2023 | DESIGNER: GALARNMC

Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2023\Newton\PAP_501\NEW 501 PAP Pot Surface 20230424.mxd



COMPLIANCE MONITORING
BACKGROUND MONITORING
MONITORING WELL
PORE WATER WELL
LEACHATE WELL
STAFF GAGE, CCR UNIT
STAFF GAGE, LAKE
GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION
GROUNDWATER FLOW
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE

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 (NAVD88)

0 400 800
Feet

POTENTIOMETRIC SURFACE MAP JULY 24-25, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PRIMARY ASH POND
NEWTON POWER PLANT
NEWTON, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\22\22851MXD\GW_Contours\Round_2023\Newton\PAP_501\NEW 501 PAP Pot Surface 20230724.mxd

PROJECT: 169000XXXX | DATED: 12/11/2023 | DESIGNER: GALARNMC



COMPLIANCE MONITORING
BACKGROUND MONITORING
MONITORING WELL
PORE WATER WELL
LEACHATE WELL
STAFF GAGE, CCR UNIT
STAFF GAGE, LAKE
GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION
GROUNDWATER FLOW
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE

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 (NAVD88)

0 400 800
Feet

POTENTIOMETRIC SURFACE MAP OCTOBER 9, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PRIMARY ASH POND
NEWTON POWER PLANT
NEWTON, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

PROJECT: 169000XXXX | DATED: 12/11/2023 | DESIGNER: GALARNMC

Y:\Mapping\Projects\22\22851MXD\GW_Contours\Round_2023\Newton\PAP_501\NEW 501 PAP Pot Surface 20231009.mxd

APPENDIX A
LABORATORY REPORTS AND FIELD DATA SHEETS

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

March 14, 2023

Terry Hanratty
Vistra - Newton
Newton Energy Center 6725 N. 500th St
Newton, IL 62448

Dear Terry Hanratty:

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

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GB00256

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

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

Work Order GB00423

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

Pace Analytical Services, LLC
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Case Narrative

G108, G110 and G217d - wells no longer exist
L203 - cap frozen, unable to open
M26-1 - frozen
MW-31s, MW-35d and MW35s - unable to open, casing has sunk into ground
L301, L302 - panel screen not working
SG02 - unable to find
Revised Report - added missing Cr dissolved results, removed Cr total and Mn total. Added missing SO4 MSD. Corrected the unsigned coc forms. The field calibration forms for 1/31/23 and 2/1/23 are missing DO (saturaton) value. The result was omitted from these forms and we are unable to retrieve data.

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

ANALYTICAL RESULTS

Sample: GB00256-06
Name: APW07
Matrix: Ground Water - Grab

Sampled: 01/31/23 11:38
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	59	mg/L	Q4	02/10/23 11:11	10	10	02/10/23 11:11	LAM	EPA 300.0 REV 2.1
Fluoride	0.409	mg/L		02/10/23 10:16	1	0.250	02/10/23 10:16	LAM	EPA 300.0 REV 2.1
Sulfate	12	mg/L	Q4	02/10/23 11:11	10	10	02/10/23 11:11	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	47.11	Feet		01/31/23 11:38	1		01/31/23 11:38	FIELD	Field*
Dissolved oxygen, Field	5.2	mg/L		01/31/23 11:38	1		01/31/23 11:38	FIELD	Field*
Oxidation Reduction Potential	106	mV		01/31/23 11:38	1	-500	01/31/23 11:38	FIELD	Field*
pH, Field Measured	6.79	pH Units		01/31/23 11:38	1		01/31/23 11:38	FIELD	Field*
Specific Conductance, Field Measured	1050	umhos/cm		01/31/23 11:38	1		01/31/23 11:38	FIELD	Field*
Temperature, Field Measured	9.0	°C		01/31/23 11:38	1		01/31/23 11:38	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/31/23 11:38	1	0.00	01/31/23 11:38	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	310	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	560	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/02/23 08:53	5	3.0	02/08/23 08:46	JMW	EPA 6020A
Arsenic	17	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:46	JMW	EPA 6020A
Barium	540	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:00	JMW	EPA 6020A
Boron	82	ug/L		02/02/23 08:53	5	10	02/09/23 11:00	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:46	JMW	EPA 6020A
Calcium	110	mg/L		02/02/23 08:53	5	0.20	02/08/23 08:46	JMW	EPA 6020A
Chromium	10	ug/L		02/02/23 08:53	5	4.0	02/08/23 08:46	JMW	EPA 6020A
Cobalt	2.5	ug/L		02/02/23 08:53	5	2.0	02/08/23 08:46	JMW	EPA 6020A
Lead	3.4	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:00	JMW	EPA 6020A
Magnesium	42	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:46	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/02/23 08:53	5	0.20	02/09/23 11:00	JMW	EPA 6020A
Potassium	2.4	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:46	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:46	JMW	EPA 6020A
Sodium	100	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:46	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:00	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GB00256-06
Name: APW07
Matrix: Ground Water - Grab

Sampled: 01/31/23 11:38
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		02/02/23 08:53	1	0.020	02/07/23 12:38	TJJ	EPA 6010B

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2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

ANALYTICAL RESULTS

Sample: GB00256-07
Name: APW08
Matrix: Ground Water - Grab

Sampled: 01/31/23 13:21
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	55	mg/L	Q4	02/10/23 12:59	10	10	02/10/23 12:59	LAM	EPA 300.0 REV 2.1
Fluoride	0.430	mg/L		02/10/23 11:29	1	0.250	02/10/23 11:29	LAM	EPA 300.0 REV 2.1
Sulfate	44	mg/L	Q4	02/10/23 12:59	10	10	02/10/23 12:59	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	37.76	Feet		01/31/23 13:21	1		01/31/23 13:21	FIELD	Field*
Dissolved oxygen, Field	5.8	mg/L		01/31/23 13:21	1		01/31/23 13:21	FIELD	Field*
Oxidation Reduction Potential	-109	mV		01/31/23 13:21	1	-500	01/31/23 13:21	FIELD	Field*
pH, Field Measured	7.31	pH Units		01/31/23 13:21	1		01/31/23 13:21	FIELD	Field*
Specific Conductance, Field Measured	1120	umhos/cm		01/31/23 13:21	1		01/31/23 13:21	FIELD	Field*
Temperature, Field Measured	11.0	°C		01/31/23 13:21	1		01/31/23 13:21	FIELD	Field*
Turbidity, Field Measured	131	NTU		01/31/23 13:21	1	0.00	01/31/23 13:21	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	340	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	600	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/02/23 08:53	5	3.0	02/08/23 08:50	JMW	EPA 6020A
Arsenic	24	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:50	JMW	EPA 6020A
Barium	500	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:50	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:03	JMW	EPA 6020A
Boron	82	ug/L		02/02/23 08:53	5	10	02/09/23 11:03	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:50	JMW	EPA 6020A
Calcium	110	mg/L		02/02/23 08:53	5	0.20	02/08/23 08:50	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/02/23 08:53	5	4.0	02/08/23 08:50	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		02/02/23 08:53	5	2.0	02/08/23 08:50	JMW	EPA 6020A
Lead	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:03	JMW	EPA 6020A
Magnesium	45	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:50	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/02/23 08:53	5	0.20	02/09/23 11:03	JMW	EPA 6020A
Potassium	2.0	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:50	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:50	JMW	EPA 6020A
Sodium	91	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:50	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:03	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GB00256-07
Name: APW08
Matrix: Ground Water - Grab

Sampled: 01/31/23 13:21
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		02/02/23 08:53	1	0.020	02/07/23 12:46	TJJ	EPA 6010B

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

ANALYTICAL RESULTS

Sample: GB00256-08
Name: APW09
Matrix: Ground Water - Grab

Sampled: 01/31/23 15:29
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	130	mg/L	Q4	02/10/23 14:12	25	25	02/10/23 14:12	LAM	EPA 300.0 REV 2.1
Fluoride	0.468	mg/L		02/10/23 13:17	1	0.250	02/10/23 13:17	LAM	EPA 300.0 REV 2.1
Sulfate	11	mg/L		02/11/23 11:49	5	5.0	02/11/23 11:49	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.47	Feet		01/31/23 15:29	1		01/31/23 15:29	FIELD	Field*
Dissolved oxygen, Field	6.3	mg/L		01/31/23 15:29	1		01/31/23 15:29	FIELD	Field*
Oxidation Reduction Potential	-113	mV		01/31/23 15:29	1	-500	01/31/23 15:29	FIELD	Field*
pH, Field Measured	7.61	pH Units		01/31/23 15:29	1		01/31/23 15:29	FIELD	Field*
Specific Conductance, Field Measured	1420	umhos/cm		01/31/23 15:29	1		01/31/23 15:29	FIELD	Field*
Temperature, Field Measured	10.1	°C		01/31/23 15:29	1		01/31/23 15:29	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/31/23 15:29	1	0.00	01/31/23 15:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/02/23 08:53	5	3.0	02/08/23 08:54	JMW	EPA 6020A
Arsenic	30	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:54	JMW	EPA 6020A
Barium	470	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:54	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:24	JMW	EPA 6020A
Boron	100	ug/L		02/02/23 08:53	5	10	02/09/23 11:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:54	JMW	EPA 6020A
Calcium	94	mg/L		02/02/23 08:53	5	0.20	02/08/23 08:54	JMW	EPA 6020A
Chromium	11	ug/L		02/02/23 08:53	5	4.0	02/08/23 08:54	JMW	EPA 6020A
Cobalt	2.5	ug/L		02/02/23 08:53	5	2.0	02/08/23 08:54	JMW	EPA 6020A
Lead	5.2	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:24	JMW	EPA 6020A
Magnesium	44	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:54	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/02/23 08:53	5	0.20	02/09/23 11:24	JMW	EPA 6020A
Potassium	2.2	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:54	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:54	JMW	EPA 6020A
Sodium	200	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:54	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:24	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GB00256-08
Name: APW09
Matrix: Ground Water - Grab

Sampled: 01/31/23 15:29
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 0.020	mg/L		02/02/23 08:53	1	0.020	02/07/23 12:48	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GB00256-09
Name: APW10
Matrix: Ground Water - Grab

Sampled: 01/31/23 14:28
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	41	mg/L		02/10/23 16:00	10	10	02/10/23 16:00	LAM	EPA 300.0 REV 2.1
Fluoride	0.314	mg/L		02/10/23 15:42	1	0.250	02/10/23 15:42	LAM	EPA 300.0 REV 2.1
Sulfate	390	mg/L		02/10/23 16:18	100	100	02/10/23 16:18	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	17.62	Feet		01/31/23 14:28	1		01/31/23 14:28	FIELD	Field*
Dissolved oxygen, Field	2.5	mg/L		01/31/23 14:28	1		01/31/23 14:28	FIELD	Field*
Oxidation Reduction Potential	50.0	mV		01/31/23 14:28	1	-500	01/31/23 14:28	FIELD	Field*
pH, Field Measured	7.41	pH Units		01/31/23 14:28	1		01/31/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1520	umhos/cm		01/31/23 14:28	1		01/31/23 14:28	FIELD	Field*
Temperature, Field Measured	12.8	°C		01/31/23 14:28	1		01/31/23 14:28	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/31/23 14:28	1	0.00	01/31/23 14:28	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	300	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/07/23 11:20	1	10	02/07/23 11:20	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		02/02/23 10:21	1	26	02/02/23 12:19	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		02/02/23 08:53	5	3.0	02/08/23 08:57	JMW	EPA 6020A
Arsenic	11	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:57	JMW	EPA 6020A
Barium	59	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:57	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:27	JMW	EPA 6020A
Boron	74	ug/L		02/02/23 08:53	5	10	02/09/23 11:27	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:57	JMW	EPA 6020A
Calcium	160	mg/L		02/02/23 08:53	5	0.20	02/08/23 08:57	JMW	EPA 6020A
Chromium	< 4.0	ug/L		02/02/23 08:53	5	4.0	02/08/23 08:57	JMW	EPA 6020A
Cobalt	2.1	ug/L		02/02/23 08:53	5	2.0	02/08/23 08:57	JMW	EPA 6020A
Lead	2.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:27	JMW	EPA 6020A
Magnesium	73	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:57	JMW	EPA 6020A
Mercury	< 0.20	ug/L		02/02/23 08:53	5	0.20	02/09/23 11:27	JMW	EPA 6020A
Potassium	2.2	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:57	JMW	EPA 6020A
Selenium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/08/23 08:57	JMW	EPA 6020A
Sodium	120	mg/L		02/02/23 08:53	5	0.10	02/08/23 08:57	JMW	EPA 6020A
Thallium	< 1.0	ug/L		02/02/23 08:53	5	1.0	02/09/23 11:27	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB00256-09
Name: APW10
Matrix: Ground Water - Grab

Sampled: 01/31/23 14:28
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	0.020	mg/L		02/02/23 08:53	1	0.020	02/07/23 13:00	TJJ	EPA 6010B

Sample: GB00256-58
Name: XSG01
Matrix: Ground Water - Grab

Sampled: 01/30/23 00:00
Received: 02/01/23 15:47

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	53.43	Feet		01/30/23 00:00	1		01/30/23 00:00	FIELD	Field*

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ANALYTICAL RESULTS

Sample: GB00423-35
Name: XPW01
Matrix: Ground Water - Grab

Sampled: 02/01/23 17:19
Received: 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.7	mg/L		02/11/23 19:57	5	5.0	02/11/23 19:57	LAM	EPA 300.0 REV 2.1
Sulfate	4200	mg/L		02/11/23 20:15	1000	1000	02/11/23 20:15	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.92	Feet		02/01/23 17:19	1		02/01/23 17:19	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		02/01/23 17:19	1		02/01/23 17:19	FIELD	Field*
Oxidation Reduction Potential	-338	mV		02/01/23 17:19	1	-500	02/01/23 17:19	FIELD	Field*
pH, Field Measured	12.4	pH Units		02/01/23 17:19	1		02/01/23 17:19	FIELD	Field*
Specific Conductance, Field Measured	11700	umhos/cm		02/01/23 17:19	1		02/01/23 17:19	FIELD	Field*
Temperature, Field Measured	13.4	°C		02/01/23 17:19	1		02/01/23 17:19	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/01/23 17:19	1	0.00	02/01/23 17:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L	H	02/22/23 10:11	1	10	02/22/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	580	mg/L	H	02/22/23 10:11	1	10	02/22/23 10:11	CPS	SM 2320B 1997*
Fluoride	4.45	mg/L		02/15/23 16:41	1	0.250	02/15/23 16:41	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3400	mg/L		02/03/23 11:50	1	26	02/03/23 13:50	HRF	SM 2540C
Total Metals - PIA									
Boron	15000	ug/L		02/07/23 09:10	100	200	02/13/23 15:34	JMW	EPA 6020A
Calcium	24	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:34	JMW	EPA 6020A
Magnesium	3.3	mg/L		02/07/23 09:10	100	2.0	02/13/23 15:34	JMW	EPA 6020A
Potassium	57	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:11	JMW	EPA 6020A
Sodium	2600	mg/L		02/07/23 09:10	100	4.0	02/13/23 15:34	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB00423-36
Name: XPW02
Matrix: Ground Water - Grab

Sampled: 02/01/23 17:49
Received: 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	8.4	mg/L		02/11/23 20:52	1	1.0	02/11/23 20:52	LAM	EPA 300.0 REV 2.1
Fluoride	0.511	mg/L		02/11/23 20:52	1	0.250	02/11/23 20:52	LAM	EPA 300.0 REV 2.1
Sulfate	150	mg/L		02/11/23 21:28	25	25	02/11/23 21:28	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.33	Feet		02/01/23 17:49	1		02/01/23 17:49	FIELD	Field*
Dissolved oxygen, Field	2.1	mg/L		02/01/23 17:49	1		02/01/23 17:49	FIELD	Field*
Oxidation Reduction Potential	-79.0	mV		02/01/23 17:49	1	-500	02/01/23 17:49	FIELD	Field*
pH, Field Measured	10.1	pH Units		02/01/23 17:49	1		02/01/23 17:49	FIELD	Field*
Specific Conductance, Field Measured	787.0	umhos/cm		02/01/23 17:49	1		02/01/23 17:49	FIELD	Field*
Temperature, Field Measured	13.0	°C		02/01/23 17:49	1		02/01/23 17:49	FIELD	Field*
Turbidity, Field Measured	180	NTU		02/01/23 17:49	1	0.00	02/01/23 17:49	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	25	mg/L	H, M	02/22/23 15:43	1	10	02/22/23 15:43	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	20	mg/L	H	02/22/23 15:43	1	10	02/22/23 15:43	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	320	mg/L		02/03/23 11:50	1	26	02/03/23 13:50	HRF	SM 2540C
Total Metals - PIA									
Boron	2300	ug/L		02/07/23 09:10	5	10	02/17/23 12:37	JMW	EPA 6020A
Calcium	31	mg/L		02/07/23 09:10	5	0.20	02/16/23 10:15	JMW	EPA 6020A
Magnesium	1.4	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:15	JMW	EPA 6020A
Potassium	16	mg/L		02/07/23 09:10	5	0.10	02/16/23 10:15	JMW	EPA 6020A
Sodium	70	mg/L		02/07/23 09:10	5	0.15	02/16/23 10:15	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB00423-37
Name: XPW03
Matrix: Ground Water - Grab

Sampled: 02/02/23 11:08
Received: 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.6	mg/L		02/11/23 22:22	1	1.0	02/11/23 22:22	LAM	EPA 300.0 REV 2.1
Fluoride	1.29	mg/L		02/11/23 22:22	1	0.250	02/11/23 22:22	LAM	EPA 300.0 REV 2.1
Sulfate	98	mg/L		02/11/23 22:58	25	25	02/11/23 22:58	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.34	Feet		02/02/23 11:08	1		02/02/23 11:08	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		02/02/23 11:08	1		02/02/23 11:08	FIELD	Field*
Oxidation Reduction Potential	-186	mV		02/02/23 11:08	1	-500	02/02/23 11:08	FIELD	Field*
pH, Field Measured	11.8	pH Units		02/02/23 11:08	1		02/02/23 11:08	FIELD	Field*
Specific Conductance, Field Measured	1950	umhos/cm		02/02/23 11:08	1		02/02/23 11:08	FIELD	Field*
Temperature, Field Measured	15.1	°C		02/02/23 11:08	1		02/02/23 11:08	FIELD	Field*
Turbidity, Field Measured	112	NTU		02/02/23 11:08	1	0.00	02/02/23 11:08	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	180	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	780	mg/L		02/03/23 11:50	1	26	02/03/23 13:50	HRF	SM 2540C
Total Metals - PIA									
Boron	1700	ug/L		02/08/23 08:50	5	10	02/20/23 12:30	JMW	EPA 6020A
Calcium	37	mg/L		02/08/23 08:50	5	0.20	02/20/23 12:30	JMW	EPA 6020A
Magnesium	2.7	mg/L		02/08/23 08:50	5	0.10	02/20/23 12:30	JMW	EPA 6020A
Potassium	18	mg/L		02/08/23 08:50	5	0.10	02/20/23 12:30	JMW	EPA 6020A
Sodium	230	mg/L	Q4	02/08/23 08:50	5	0.10	02/20/23 12:30	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GB00423-38
Name: XPW04
Matrix: Ground Water - Grab

Sampled: 02/01/23 14:49
Received: 02/02/23 16:21

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L		02/11/23 23:16	10	10	02/11/23 23:16	LAM	EPA 300.0 REV 2.1
Sulfate	6200	mg/L		02/11/23 23:34	1000	1000	02/11/23 23:34	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.29	Feet		02/01/23 14:49	1		02/01/23 14:49	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		02/01/23 14:49	1		02/01/23 14:49	FIELD	Field*
Oxidation Reduction Potential	-165	mV		02/01/23 14:49	1	-500	02/01/23 14:49	FIELD	Field*
pH, Field Measured	11.6	pH Units		02/01/23 14:49	1		02/01/23 14:49	FIELD	Field*
Specific Conductance, Field Measured	1080	umhos/cm		02/01/23 14:49	1		02/01/23 14:49	FIELD	Field*
Temperature, Field Measured	14.2	°C		02/01/23 14:49	1		02/01/23 14:49	FIELD	Field*
Turbidity, Field Measured	57.6	NTU		02/01/23 14:49	1	0.00	02/01/23 14:49	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	150	mg/L		02/13/23 10:14	1	10	02/13/23 10:14	HRF	SM 2320B 1997*
Fluoride	0.867	mg/L		02/17/23 14:15	1	0.250	02/17/23 14:15	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	11000	mg/L		02/07/23 10:01	1	34	02/07/23 10:50	CPS	SM 2540C
Total Metals - PIA									
Boron	3500	ug/L		02/08/23 08:50	5	10	02/20/23 12:34	JMW	EPA 6020A
Calcium	130	mg/L		02/08/23 08:50	100	4.0	02/20/23 14:49	JMW	EPA 6020A
Magnesium	< 2.0	mg/L		02/08/23 08:50	100	2.0	02/20/23 14:49	JMW	EPA 6020A
Potassium	90	mg/L		02/08/23 08:50	100	3.0	02/20/23 14:49	JMW	EPA 6020A
Sodium	3700	mg/L		02/08/23 08:50	100	3.0	02/20/23 14:49	JMW	EPA 6020A

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B324637 - SW 3015 - EPA 6010B									
Blank (B324637-BLK1)				Prepared: 02/02/23 Analyzed: 02/07/23					
Lithium	< 0.020	mg/L							
LCS (B324637-BS1)				Prepared: 02/02/23 Analyzed: 02/07/23					
Lithium	0.448	mg/L		0.5556		81	80-120		
Batch B324637 - SW 3015 - EPA 6020A									
Blank (B324637-BLK1)				Prepared: 02/02/23 Analyzed: 02/06/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B324637-BS1)				Prepared: 02/02/23 Analyzed: 02/06/23					
Antimony	501	ug/L		555.6		90	80-120		
Arsenic	519	ug/L		555.6		93	80-120		
Barium	538	ug/L		555.6		97	80-120		
Beryllium	526	ug/L		555.6		95	80-120		
Boron	512	ug/L		555.6		92	80-120		
Cadmium	559	ug/L		555.6		101	80-120		
Calcium	5.27	mg/L		5.556		95	80-120		
Chromium	553	ug/L		555.6		100	80-120		
Cobalt	531	ug/L		555.6		96	80-120		
Lead	544	ug/L		555.6		98	80-120		
Magnesium	5.37	mg/L		5.556		97	80-120		
Mercury	56.3	ug/L		55.56		101	80-120		
Potassium	5.29	mg/L		5.556		95	80-120		
Selenium	529	ug/L		555.6		95	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
Thallium	532	ug/L		555.6		96	80-120		
Batch B324652 - No Prep - SM 2540C									
Blank (B324652-BLK1)				Prepared & Analyzed: 02/02/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B324652-BS1)				Prepared & Analyzed: 02/02/23					

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B324652-BS1)				Prepared & Analyzed: 02/02/23					
Solids - total dissolved solids (TDS)	973	mg/L		1000		97	84.9-109		
Batch B324786 - No Prep - SM 2540C									
Blank (B324786-BLK1)				Prepared & Analyzed: 02/03/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B324786-BS1)				Prepared & Analyzed: 02/03/23					
Solids - total dissolved solids (TDS)	1040	mg/L		1000		104	84.9-109		
Batch B324958 - SW 3015 - EPA 6020A									
Blank (B324958-BLK1)				Prepared: 02/07/23 Analyzed: 02/10/23					
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 (B324958-BS1)				Prepared: 02/07/23 Analyzed: 02/10/23					
Boron	561	ug/L		555.6		101	80-120		
Calcium	5.77	mg/L		5.556		104	80-120		
Magnesium	5.97	mg/L		5.556		108	80-120		
Potassium	5.68	mg/L		5.556		102	80-120		
Sodium	5.91	mg/L		5.556		106	80-120		
Batch B324970 - No Prep - SM 2540C									
Blank (B324970-BLK1)				Prepared & Analyzed: 02/07/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B324970-BS1)				Prepared & Analyzed: 02/07/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
Duplicate (B324970-DUP1)	**Sample: GB00423-38**			Prepared & Analyzed: 02/07/23					
Solids - total dissolved solids (TDS)	11100	mg/L			11400			2	5
Batch B325083 - SW 3015 - EPA 6020A									
Blank (B325083-BLK1)				Prepared: 02/08/23 Analyzed: 02/20/23					
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 (B325083-BS1)				Prepared: 02/08/23 Analyzed: 02/20/23					
Boron	565	ug/L		555.6		102	80-120		
Calcium	5.75	mg/L		5.556		103	80-120		
Magnesium	5.91	mg/L		5.556		106	80-120		
Potassium	5.75	mg/L		5.556		104	80-120		
Sodium	5.70	mg/L		5.556		103	80-120		
Matrix Spike (B325083-MS1)	**Sample: GB00423-37**			Prepared: 02/08/23 Analyzed: 02/20/23					
Boron	2220	ug/L		555.6	1670	98	75-125		
Calcium	42.0	mg/L		5.556	37.4	84	75-125		
Magnesium	8.11	mg/L		5.556	2.67	98	75-125		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B325083-MS1)	**Sample: GB00423-37**			Prepared: 02/08/23 Analyzed: 02/20/23					
Potassium	23.6	mg/L		5.556	18.2	97	75-125		
Sodium	232	mg/L	Q4	5.556	231	16	75-125		
Matrix Spike Dup (B325083-MSD1)	**Sample: GB00423-37**			Prepared: 02/08/23 Analyzed: 02/20/23					
Boron	2220	ug/L		555.6	1670	98	75-125	0.09	20
Calcium	42.4	mg/L		5.556	37.4	90	75-125	0.8	20
Magnesium	8.05	mg/L		5.556	2.67	97	75-125	0.8	20
Potassium	23.4	mg/L		5.556	18.2	94	75-125	0.6	20
Sodium	232	mg/L	Q4	5.556	231	31	75-125	0.4	20
Batch B325491 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B325491-CCB1)				Prepared & Analyzed: 02/10/23					
Sulfate	0.00	mg/L							
Chloride	0.140	mg/L							
Fluoride	0.00	mg/L							
Calibration Check (B325491-CCV1)				Prepared & Analyzed: 02/10/23					
Fluoride	5.05	mg/L		5.000		101	90-110		
Sulfate	4.89	mg/L		5.000		98	90-110		
Chloride	4.69	mg/L		5.000		94	90-110		
Matrix Spike (B325491-MS2)	**Sample: GB00256-07**			Prepared & Analyzed: 02/10/23					
Sulfate	1.00E9	mg/L	Q4	1.500	43.6	NR	80-120		
Fluoride	1.75	mg/L		1.500	0.430	88	80-120		
Chloride	8.0	mg/L	Q4	1.500	55	NR	80-120		
Matrix Spike (B325491-MS3)	**Sample: GB00256-08**			Prepared & Analyzed: 02/10/23					
Chloride	1.0E9	mg/L	Q4	1.500	130	NR	80-120		
Fluoride	1.74	mg/L		1.500	0.468	84	80-120		
Matrix Spike Dup (B325491-MSD2)	**Sample: GB00256-07**			Prepared & Analyzed: 02/10/23					
Sulfate	1.00E9	mg/L	Q4	1.500	43.6	NR	80-120	0	20
Fluoride	2.09	mg/L		1.500	0.430	110	80-120	18	20
Chloride	9.2	mg/L	Q4	1.500	55	NR	80-120		20
Matrix Spike Dup (B325491-MSD3)	**Sample: GB00256-08**			Prepared & Analyzed: 02/10/23					
Fluoride	1.73	mg/L		1.500	0.468	84	80-120	0.3	20
Chloride	1.0E9	mg/L	Q4	1.500	130	NR	80-120	0	20
Batch B325508 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B325508-CCB1)				Prepared & Analyzed: 02/11/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.940	mg/L							
Calibration Check (B325508-CCV1)				Prepared & Analyzed: 02/11/23					
Fluoride	5.04	mg/L		5.000		101	90-110		
Chloride	4.66	mg/L		5.000		93	90-110		
Sulfate	4.90	mg/L		5.000		98	90-110		
Batch B325804 - No Prep - SM 4500F C 1997									
Calibration Blank (B325804-CCB1)				Prepared & Analyzed: 02/15/23					
Fluoride	0.0160	mg/L							
Calibration Blank (B325804-CCB2)				Prepared & Analyzed: 02/15/23					

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
Calibration Blank (B325804-CCB2)				Prepared & Analyzed: 02/15/23					
Fluoride	0.00800	mg/L							
Calibration Check (B325804-CCV1)				Prepared & Analyzed: 02/15/23					
Fluoride	0.690	mg/L		0.7000		99	90-110		
Calibration Check (B325804-CCV2)				Prepared & Analyzed: 02/15/23					
Fluoride	0.757	mg/L		0.7000		108	90-110		
Batch B326062 - No Prep - SM 4500F C 1997									
Calibration Blank (B326062-CCB1)				Prepared & Analyzed: 02/17/23					
Fluoride	0.00500	mg/L							
Calibration Blank (B326062-CCB2)				Prepared & Analyzed: 02/17/23					
Fluoride	0.0180	mg/L							
Calibration Check (B326062-CCV2)				Prepared & Analyzed: 02/17/23					
Fluoride	0.738	mg/L		0.7000		105	90-110		
Batch B326573 - No Prep - SM 2320B 1997									
Duplicate (B326573-DUP1)	**Sample: GB00423-36**			Prepared & Analyzed: 02/22/23					
Alkalinity - carbonate as CaCO3	20.0	mg/L			20.0			0	10
Alkalinity - bicarbonate as CaCO3	22.5	mg/L	M		25.0			11	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

H	Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
M	Analyte failed to meet the required acceptance criteria for duplicate analysis.
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

VISTRA - NEWTON
NEWTON 1Q23 GB002756

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:	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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW31S																						
2	MW33S																						
3	MW34D																						
4	MW35D	WT	G	1/31/23	1318		0																
5	MW35S																						
6	MW36S																						
7	MW43D	WT	G	2/1/23	1117		2	x		x													
8	MW46D																						
9	MW48S																						
10	R201																						
11	R202																						
12	R216																						
13	R217D	WT	G	1/31/23	1253		2	x		x													
14	R219																						
15	SG02																						
16	XPW01																						

unable to open

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-Q1-2023		2/1/23	1139		2/1/23	1140	
		2/1/23	1547				0.5

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Rymberson

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 01/31/23

Vana Wagner 1547 2-1-23

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

VISTRA - NEWTON
NEWTON 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 3

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp
		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	

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 #	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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																						
2	A213	WT	G	2/1/23	1000		4	X	X	X		X											
3	A214	WT	G	1/31/23	1613		4	X	X	X		X											
4	A215	WT	G	1/31/23	1415		4	X	X	X		X											
5	APW02																						
6	APW03																						
7	APW04																						
8	APW05																						
9	APW06																						
10	APW07	WT	G	1/31/23	1138		3	X		X													
11	APW08	WT	G	1/31/23	1321		3	X		X													
12	APW09	WT	G	1/31/23	1529		3	X		X													
13	APW10	WT	G	1/31/23	1428		3	X		X													
14	G06D																						
15	G104																						
16	G104D																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-Q1-2023		2/1/23	1139		2/1/23	1140	
		2/1/23	1547				0.5

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Pemberton
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 01/31/23

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

Vern Wayne
2-1-23 1547

VISTRA - NEWTON
NEWTON 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 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

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	Analysis Test Y/N	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G221																						
2	G222																						
3	G223	WT	G	2/1/23	1024																		
4	G224	WT	G	1/31/23	1450		2	X		X													
5	G225																						
6	G230	WT	G	2/1/23	0957		6	X	X	X		X											
7	G231	WT	G	2/1/23	1047		6	X	X	X		X											
8	G232	WT	G	2/1/23	1132		6	X	X	X		X											
9	G233																						
10	G234																						
11	G48MG																						
12	L1R																						
13	L201																						
14	L202																						
15	L203																						
16	L204																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-Q1-2023		2/1/23	1130				
		2/1/23	1547		2/1/23	1140	C.5

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Richardson
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 01/31/23

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

Vance Wagner
2-1-23 1547

VISTRA - NEWTON
NEWTON 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G120																						
2	G125																						
3	G128																						
4	G130																						
5	G133	WT	G	2/1/23	10:38		6	X	X	X		X											
6	G136																						
7	G139																						
8	G141																						
9	G201																						
10	G202																						
11	G203	WT																					
12	G208	WT	G	2/1/23	11:10		2	X		X													
13	G217D																						
14	G217S																						
15	G218																						
16	G220																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-Q1-2023	Joseph R Reed	2/1/23	1134	Joseph R Reed	2/1/23	1140	
	Joseph R Reed	2/1/23	1547				0.5

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Kimberlin
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/01/23

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

Vanessa Wagner
2-1-23 1547

VISTRA - NEWTON
NEWTON 1Q23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G104S																						
2	G105																						
3	G106																						
4	G108	WT	G	1/31/23	1332		0																
5	G109																						
6	G110																						
7	G111																						
8	G112																						
9	G113																						
10	G114	WT	G	1/31/23	1452		2	X		X													
11	G114D	WT	G	1/31/23	1600		2	X		X													
12	G115																						
13	G116																						
14	G117																						
15	G118	WT	G	1/31/23	1011		2	X		X													
16	G119																						

Requested Analysis Filtered (Y/N)

non DS 2/1/23 shown PPP 1/31/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-Q1-2023	Joseph R Reed	2/1/23	1139	Joseph R Reed	2/1/23	1140	
	Joseph R Reed	2/1/23	1547				05

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aurora Armbruster
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01/31/23

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

Vance Vaughn
2-1-23 1547

VISTRA - NEWTON
NEWTON 1Q23
GB00423-

CHAIN-OF-CUSTODY / Analytical Request Document

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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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																						
2	A213																						
3	A214																						
4	A215																						
5	APW02	WT	G	2/1/23	1631		2	X		X													
6	APW03	WT	G	2/1/23	1527		2	X		X													
7	APW04	WT	G	2/2/23	1143		2	X		X													
8	APW05																						
9	APW06																						
10	APW07																						
11	APW08																						
12	APW09																						
13	APW10																						
14	G06D	WT	G	2/1/23	1712		2	X		X													
15	G104	WT	G	2/1/23	1709		4	X	X	X		X											
16	G104D	WT	G	2/1/23	1736		2	X		X													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-Q1-2023		2/2/23	1621		2/2/23	16:21

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Haran Pemberton

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 02/01/23

4.2°

VISTRA - NEWTON
NEWTON 1Q23

GB00423

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G104S																					
2	G105	WT	G	2/1/23	1427		4	X	X	X		X										
3	G106	WT	G	2/1/23	1440		4	X	X	X		X										
4	G108																					
5	G109																					
6	G110																					
7	G111																					
8	G112																					
9	G113																					
10	G114																					
11	G114D																					
12	G115																					
13	G116	WT	G	2/2/23	1022		4	X	X	X		X										
14	G117																					
15	G118																					
16	G119																					

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)
NEW-Q1-2023		2/2/23	1621		2/2/23	1421	4.6	yes	no	yes

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Pemberton
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/01/23

VISTRA - NEWTON
NEWTON 1Q23
GB00423

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 7

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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G120																						
2	G125		WT	G	2/2/23	1234		4	X	X	X		X										
3	G128		WT	G	2/1/23	1659		6	X	X	X		X										
4	G130		WT	G	2/1/23	1300		6	X	X	X		X										
5	G133																						
6	G136		WT	G	2/1/23	1503		4	X	X	X		X										
7	G139		WT	G	2/1/23	1539		4	X	X	X		X										
8	G141		WT	G	2/2/23	1154		4	X	X	X		X										
9	G201		WT	G	2/2/23	1019		6	X	X	X		X										
10	G202		WT	G	2/1/23	1635		6	X	X	X		X										
11	G203		WT	G	2/1/23	1527		2	X		X												
12	G208																						
13	G217D																						
14	G217S		WT	G	2/1/23	1750		4	X	X	X		X										
15	G218																						
16	G220		WT	G	2/1/23	1301		2	X		X												

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)
NEW-Q1-2023		2/2/23	1621		2/2/23	16:21	4.2	Yes	No	Yes

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 02/01/23

VISTRA - NEWTON
NEWTON 1Q23 GB00423

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 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

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	Y/N	Analysis Test: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G221	WT	G	2/1/23	1334		4	X	X	X		X											
2	G222	WT	G	2/1/23	1402		2	X		X													
3	G223																						
4	G224																						
5	G225	WT	G	2/2/23	1112		4	X	X	X		X											
6	G230																						
7	G231																						
8	G232																						
9	G233	WT	G	2/1/23	1314		6	X	X	X		X											
10	G234	WT	G	2/1/23	1238		6	X	X	X		X											
11	G48MG	WT	G	2/2/23	1025		2	X		X													
12	L1R	WT	G	2/2/23	1215		2	X		X													
13	L201																						
14	L202																						
15	L203																						
16	L204																						

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: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
NEW-Q1-2023		2/2/23	1621		2/2/23	16:21	4.2	Yes	No	Yes

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Baron Kimberlin
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/01/23

VISTRA - NEWTON
NEWTON 1Q23
GB00423

CHAIN-OF-CUSTODY / Analytical Request Document

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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

Requested Analysis Filtered (Y/N)

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

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 ↓ NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	L205																						
2	L301	WT	G	2/1/23	1327		2	X		X													
3	M25-1																						
4	M25-2																						
5	M25-3																						
6	M25-4																						
7	M25-5																						
8	M25-6																						
9	M25-7																						
10	M26-1																						
11	M26-2																						
12	M26-3																						
13	M26-4																						
14	M26-5																						
15	M26-6																						
16	M26-7																						

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)
NEW-Q1-2023		2/2/23	1621		2/2/23	16:21	4.8	Y	N/A	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Kimberlin

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/01/23

VISTRA - NEWTON
NEWTON 1Q23
GB00423

CHAIN-OF-CUSTODY / Analytical Request Document

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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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW31S																						
2	MW33S																						
3	MW34D	WT	G	2/1/23	1334		2	X		X													
4	MW35D																						
5	MW35S																						
6	MW36S																						
7	MW43D																						
8	MW46D	WT	G	2/1/23	1604		2	X		X													
9	MW48S																						
10	R201	WT	G	2/1/23	0940		6	X	X	X		X											
11	R202	WT	G	2/1/23	1602		6	X	X	X		X											
12	R216																						
13	R217D	WT	G	2/1/23	1500		4	X	X	X		X											
14	R219	WT	G	2/1/23	1227		4	X	X	X		X											
15	SG02																						
16	XPW01	WT	G	2/1/23	1714		2	X		X													

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)
NEW-Q1-2023		2/2/23	1621		2/2/23	16:21	4.2	Y	N	Y
							4	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Richardson

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/01/23

VISTRA - NEWTON
NEWTON 1Q23
G500423

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 7 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

App 2/1/23

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	Requested Analysis Filtered (Y/N) Y/N	Analysis Test ↓	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	XPW02		WT	G	2/1/23	1749		2	X		X														
2	XPW03		WT	G	2/2/23	1108		2	X		X														
3	XPW04		WT	G	2/1/23	1444		4	X		X														
4	XSG01																								
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
NEW-Q1-2023		2/2/23	1621		2/2/23	16:21	4.2	Yes	No	Yes

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Pemberton
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 02/01/23

NEWTON

WELL/SAMPLE POINT APW07 **Purge Method:** Low-Flow

Date: 1-4-23 Start Time: ~~09:33~~ Finish/Sample Time: 11:38

Total Depth: ~~80.96~~ ~~89~~ ft PUMP 09:33 Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 47.11 ft Total Purge Volume: 1.9 Gal / L

Water Column Length: 33.85 ft Max Drawdown: — ft

Well Water Volume: 5.4 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	11:01	47.0	100	6.43	1,083	8.73	166	5.54	886
2	11:02	47.0	100	6.58	1,060	8.94	114	5.39	899
3	11:03	47.0	100	6.61	1,050	8.98	136	5.28	~~1000~~ >1000
4	11:04	47.0	100	6.79	1,053	9.05	126	5.20	~~997~~ >1000
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: 3

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) 500 ML
1	2.5 L HNO3

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

Final DTW: 47.03 ft

Comments PUMP

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW08 **Purge Method:** LOW-FLOW

Date: 1-3-23 Start Time: 11:57 Finish/Sample Time: 13:21

~~Total Depth~~ ~~76.58 ft to PUMP~~ Min. Purge Volume: 1.2 Gal / L

Depth to Water From MP: ~~37.74~~ ft 37.76 Total Purge Volume: 1.6 Gal / L

Water Column Length: 38.82 ft Max Drawdown: — ft

Well Water Volume: 6.2 Gal / L Total Drawdown: ~~0.04~~ ft 0.04

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	12:41	37.91	100	7.32	1120	10.96	-98	6.02	131
2	12:42	37.80		7.32	1120	10.99	-107	5.90	130
3	12:43	37.80		7.31	1120	11.05	-109	5.81	131
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:

3

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)
	General (P, 250 mL) 500 ML
1	2.5 HNO3 .L

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

Final DTW: 37.80 ft

Comments

Sampler's Signature: [signature]

NEWTON

WELL/SAMPLE POINT ~~APW10~~ APW09 **Purge Method:** low flow

Date: 1-21-22 Start Time: 14:32 Finish/Sample Time: 15:29

Total Depth	57.97 ft	Min. Purge Volume:	1.0 Gal / L
Depth to Water From MP:	26.47 ft	Total Purge Volume:	1.3 Gal / L
Water Column Length:	31.50 ft	Max Drawdown:	~ ft
Well Water Volume:	5.0 Gal / L	Total Drawdown:	0.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)	
1	14:50	26.48	100	7.71	1,340	10.38	-83	6.51	~~1000+~~	>1000
2	14:51	26.49		7.68	~~1,410~~ 1,410	10.22	-101	6.42	~~1000+~~	>1000
3	14:52	26.48		7.61	1,420	10.09	-113	6.31	~~1000+~~	>1000
4										
5										
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA	

Field Meter: HoriBa

Sample Appearance:

Odor: ☐ None ☐ Slight ☑ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☑ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☑ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 26.48 ft

Comments T

Sampler's Signature: [signature]

NEWTON

WELL/SAMPLE POINT ~~APW09~~ APW10 **Purge Method:** LOW FLOW

Date: 1-31-23 Start Time: 13:26 Finish/Sample Time: 14:28

Total Depth	48.55 ft	Min. Purge Volume:	1.1 Gal / L
Depth to Water From MP:	17.62 ft	Total Purge Volume:	1.2 Gal / L
Water Column Length:	30.93 ft	Max Drawdown:	— ft
Well Water Volume:	4.9 Gal / L	Total Drawdown:	0.04 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	13.47	18.25	100	7.49	1,520	13.17	52	2.70	~~1000+~~	>1000
2	13.48	18.26		7.43	1,520	12.99	51	2.65	~~1000+~~	>1000
3	13.49	18.26		7.41	1,520	12.79	50	2.50	~~1000+~~	>1000
4										
5										
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA	

Field Meter: Horiba

Sample Appearance:

Odor: ☑ None ☐ Slight ☐ Mod. ☐ Strong

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:

3

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) 500 ML
1	2.5 HNO3 L

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

Final DTW: 18.26 ft

Comments

Sampler's Signature: For Kyle Lowe

NEWTON

WELL/SAMPLE POINT XPW01 **Purge Method:** LOW-FLOW

Date: 2-1-23 Start Time: 16:49 Finish/Sample Time: ~~17:19~~ 17:19

Well Depth (Bottom) From MP: ~~17.47 tof of well~~ ft

Depth to Water From MP: 10.92 ft

Water Column Length: 6.55 ft

Well Water Volume: 1.0 Gal / L

Min. Purge Volume: 1.0 Gal (L)

Total Purge Volume: 1.3 Gal / L

Max Drawdown: — ft

Total Drawdown: 0.04 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	17:01	10.95	100	12.29	11,700	13.11	-329	0	~~1000+~~ >1000
2	17:02	10.96		12.36	11,700	13.21	-335	0	~~1000+~~ >1000
3	17:03	10.96		12.42	11,700	13.38	-338	0	~~1000+~~ >1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☐ None ☐ Slight ☑ Mod. ☐ Strong

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:

2

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~~) 500 ML

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

Final DTW: 10.96 ft

Comments

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT XPW02 **Purge Method:** low-flow

Date: 2-1-23 Start Time: 17:26 Finish/Sample Time: 17:49

16.49 ~~16.37~~ ft ~~Top of well~~

Depth to Water From MP: 7.33 ft

Water Column Length: 9.16 ft

Well Water Volume: 1.4 Gal

Min. Purge Volume: 1.0 Gal

Total Purge Volume: 1.3 Gal / L

Max Drawdown: — ft

Total Drawdown: 0.15 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	17:38	~~7.35~~	100	10.21	0.801	13.07	-89	2.11	202
2	17:39	~~7.43~~		10.15	0.794	13.01	-84	2.03	197
3	17:40	~~7.46~~		10.12	0.787	13.02	-79	2.09	180
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

2

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

Final DTW: ~~8~~ 7.48 ft

Comments

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT XPW03 **Purge Method:** low-flow

Date: 2-2-23 Start Time: 10:42 Finish/Sample Time: 11:08

~~20.43 ft Top of well~~

Depth to Water From MP: 10.34 ft

Water Column Length: 10.09 ft

Well Water Volume: 1.6 Gal / L

Min. Purge Volume: 1.0 Gal / L

Total Purge Volume: 1.3 Gal / L

Max Drawdown: — ft

Total Drawdown: 0 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	10:54	10.35	100	11.80	1,920	14.85	-174	2.04	117
2	10:55	10.34		11.81	1,940	14.95	-180	2.00	118
3	10:56	10.34		11.80	~~1,950~~	~~15.08~~	~~-186~~	2.03	112
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearence:

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:

2

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

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

Final DTW: 10.34 ft

Comments

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT XPW04 **Purge Method:** ~~Low Flow~~ ~~Passive~~ KL Low Flow

Date: 2-1-23 Start Time: 14:15 Finish/Sample Time: 14:49

Well Depth (Below Measuring Point): ~~20.40 ft~~ Total Depth ~~top of well~~ Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 12.29 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 8.11 ft Max Drawdown: — ft

Well Water Volume: 1.2 Gal / L Total Drawdown: 0.05 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	14.30	12.34	~~100~~	11.61	1090	14.10	-162	1.95	62.1
2	14.31	12.32	100	11.63	1080	14.13	-164	1.79	59.5
3	14.32	12.33		11.65	1,080	14.19	-165	1.68	57.6
4									
5	—		✓						
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☐ None ☑ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

~~K~~ 2 BP 2/1/23

Filtered	
Qty	Bottles
0 1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
0 1	General (P,500mL)

Final DTW: 12.24 ft

Comments

Sampler's Signature:

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Newton
Weather:	21° F partly cloudy wind NW ~mph	Environment:	woods, grass, mud, ice, snow

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	YLA[illegible]9MA	
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number:	3717-T	

P 1/31/23

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	No	N/A	MSI	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	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	2.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240.[illegible]	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	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)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

240 @ 10c

ICV (Initial Calibration Verification) Time: 1300

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.98	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	1003.1	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1614

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	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	10.07	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:	1/31/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE	Location:	NEWTON
Weather:	11° MOSTLY CLOUDY	Environment:	COLD, ICY
Multiparameter Water Meter	Make: HORIBA	Model: WQM	Serial Number: PW2G4YJD3
Water Level Meter	Make: HERRON	Model: WT	Serial Number: 19FF2111192HB

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	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.060	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	12.20	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2008	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	242	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.03	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.14	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 0814

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.06	s.u.	±0.15 s.u.	PASS	NO	Geotech	1GF009	Jun-23
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	0GJ268	Oct-22
pH 10.00b	9.99	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	1006	µS/cm	±5%			Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1614

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	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.97	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1004	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)	1.40	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: 01/31/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	10° Cold light Breez	Environment:	Dry
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: U4U1FUTF
Water Level Meter	Make: Heron	Model: Water tape	Serial Number: 19FF22013IML

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	Na	Na	MSI	L315-04	11/22/2023
pH 7.00a	6.93	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.93	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	2.38	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2.09	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	32.1	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.11	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.4	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.21	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 08:54			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.11	s.u.	±0.15 s.u.	P	Na	Geotech	1GF009	Jun-23
pH 7.00b	7.03	s.u.	±0.15 s.u.			Geotech	OGJ268	Oct-22
pH 10.00b	9.97	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	996	µS/cm	±5%			Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 16:34				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.00	s.u.	±0.1 s.u.	P	Na	Na	MSI	L315-04	11/22/2023
7.00a	6.99	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.07	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	971	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)	1.20	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	1-31-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Kimbler	Location:	Newton
Weather:	21°-30°C Sunny W.N.W. 2mph	Environment:	grass, ICE, wood, mud
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: YL9KJ9HA
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	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	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240	mV	±15 mV				InSitu	2G1762	Jun-23
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

24.9 @ 10:00

ICV (Initial Calibration Verification)					Time: 0915			
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/A	Geotech	2GC243	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.02	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	984.1	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1800				
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	L315-04	11/22/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.08	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:		Date:	2/1/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE	Location:	NEWTON
Weather:	18° MOSTLY SUNNY	Environment:	

Multiparameter Water Meter	Make: HORIBA	Model: U-52	Serial Number:	PW2G4YJD3	
Water Level Meter	Make: HERON	Model: WT	Serial Number:	19FT2111192HB	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	Pass	NO	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	9.80	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2001	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	241	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.06	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.23	NTU	<2 NTU	—	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)				Time: 0857				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.06	s.u.	±0.15 s.u.	Pass	NA	Geotech	1GF009	Jun-23
pH 7.00b	7.02	s.u.	±0.15 s.u.			Geotech	0GJ268	Oct-22
pH 10.00b	10.02	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	1004	µS/cm	±5%			Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: 1810				
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	N/A	MSI	L315-04	11/22/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1007	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.03	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.10	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:	02/01/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	14° to 28° Sunny	Environment:	Dry
Multiparameter Water Meter	Make: Horiba	Model: U-52	Serial Number: U4V1FVTF
Water Level Meter	Make: Heron	Model: water tape	Serial Number: 19FF2202131ML

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	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	20.15	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1983	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	284	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.07	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)	1.21	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 08:05			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	N/a	Geotech	1GF009	Jun-23
pH 7.00b	7.01	s.u.	±0.15 s.u.			Geotech	OGJ268	Oct-22
pH 10.00b	10.11	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	991	µS/cm	±5%			Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 12:41			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.05	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L315-04	11/22/2023
7.00a	6.99	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1000	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)

Comments:

Signature:		Date:	2-1-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Newton
Weather:	30°-43°F Windy SW 8mph	Environment:	Woods, grass, mt
Multiparameter Water Meter	Make: Yoriba	Model: U-5000	Serial Number: YL9hJ9HA
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	4.01	s.u.	±0.1 s.u.	P	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	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	18.0	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	245	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	100.0	%	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

255 @ 5°C

ICV (Initial Calibration Verification)					Time: 0917			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.94	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	6.88	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.94	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1012	µS/cm	±5%	—	—	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1250				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	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	985	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:	2/2/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE	Location:	NEWTON
Weather:	23° SUNNY	Environment:	COLD, GRASSY, MUDDY
Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number: PW2G45D3
Water Level Meter	Make: Heron	Model: Dipper	Serial Number: 19CL211192HB

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	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	16.50	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	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.06	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	[illegible]	%	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: 0837

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.06	s.u.	±0.15 s.u.	Pass	NO	Geotech	1GF009	Jun-23
pH 7.00b	7.08	s.u.	±0.15 s.u.			Geotech	OGJ268	Oct-22
pH 10.00b	10.07	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	1001	µS/cm	±5%	—	—	Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 1025

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	N/A	MSI	L315-04	11/22/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1004	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.08	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.10	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: 02/02/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	26° to 41° Sunny	Environment:	Dry Cold
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: UL4UIFVTF
Water Level Meter	Make: Heron	Model: Water Tape	Serial Number: 19FF220213ML

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	Na	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	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	20.38	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2029	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	293	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)	1.28	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 09:15

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.11	s.u.	±0.15 s.u.	P	Na	Geotech	2GC243	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1041	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: X

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 12:48

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.09	s.u.	±0.1 s.u.	P	Na	Na	MSI	L315-04	11/22/2023
7.00a	7.03	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.07	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1049	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)	1.39	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 2-2-23

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

March 29, 2023

Terry Hanratty
Vistra - Newton
Newton Energy Center 6725 N. 500th St
Newton, IL 62448

Dear Terry Hanratty:

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 GC02777

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

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

ANALYTICAL RESULTS

Sample: GC02777-01
Name: APW02
Matrix: Ground Water - Grab

Sampled: 03/15/23 12:06
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	100	mg/L		03/17/23 16:54	50	50	03/17/23 16:54	CRD	EPA 300.0 REV 2.1
Sulfate	3000	mg/L		03/17/23 17:12	500	500	03/17/23 17:12	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.25	Feet		03/15/23 12:06	1		03/15/23 12:06	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		03/15/23 12:06	1		03/15/23 12:06	FIELD	Field*
Oxidation Reduction Potential	166	mV		03/15/23 12:06	1	-500	03/15/23 12:06	FIELD	Field*
pH, Field Measured	6.80	pH Units		03/15/23 12:06	1		03/15/23 12:06	FIELD	Field*
Specific Conductance, Field Measured	5210	umhos/cm		03/15/23 12:06	1		03/15/23 12:06	FIELD	Field*
Temperature, Field Measured	12.1	°C		03/15/23 12:06	1		03/15/23 12:06	FIELD	Field*
Turbidity, Field Measured	841	NTU		03/15/23 12:06	1	0.00	03/15/23 12:06	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	640	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	640	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		03/23/23 14:49	1	0.250	03/23/23 14:49	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	5200	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 14:58	JMW	EPA 6020A
Arsenic	1.5	ug/L		03/16/23 08:55	5	1.0	03/27/23 14:58	JMW	EPA 6020A
Barium	20	ug/L		03/16/23 08:55	5	1.0	03/27/23 14:58	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 07:43	JMW	EPA 6020A
Boron	150	ug/L		03/16/23 08:55	5	10	03/28/23 07:43	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 14:58	JMW	EPA 6020A
Calcium	490	mg/L		03/16/23 08:55	5	0.20	03/27/23 14:58	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 14:58	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 14:58	JMW	EPA 6020A
Lead	1.3	ug/L		03/16/23 08:55	5	1.0	03/27/23 14:58	JMW	EPA 6020A
Magnesium	480	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:43	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 14:58	JMW	EPA 6020A
Potassium	6.2	mg/L		03/16/23 08:55	5	0.10	03/27/23 14:58	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 14:58	JMW	EPA 6020A
Sodium	410	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:43	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 14:58	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-01
Name: APW02
Matrix: Ground Water - Grab

Sampled: 03/15/23 12:06
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	100	ug/L		03/16/23 08:55	1	20	03/21/23 11:21	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-02
Name: APW03
Matrix: Ground Water - Grab

Sampled: 03/14/23 15:27
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	7.1	mg/L		03/17/23 17:30	1	1.0	03/17/23 17:30	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/17/23 17:30	1	0.250	03/17/23 17:30	CRD	EPA 300.0 REV 2.1
Sulfate	110	mg/L		03/17/23 18:06	25	25	03/17/23 18:06	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.85	Feet		03/14/23 15:27	1		03/14/23 15:27	FIELD	Field*
Dissolved oxygen, Field	4.9	mg/L		03/14/23 15:27	1		03/14/23 15:27	FIELD	Field*
Oxidation Reduction Potential	225	mV		03/14/23 15:27	1	-500	03/14/23 15:27	FIELD	Field*
pH, Field Measured	7.05	pH Units		03/14/23 15:27	1		03/14/23 15:27	FIELD	Field*
Specific Conductance, Field Measured	1130	umhos/cm		03/14/23 15:27	1		03/14/23 15:27	FIELD	Field*
Temperature, Field Measured	11.5	°C		03/14/23 15:27	1		03/14/23 15:27	FIELD	Field*
Turbidity, Field Measured	182	NTU		03/14/23 15:27	1	0.00	03/14/23 15:27	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	480	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	480	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	800	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:02	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:02	JMW	EPA 6020A
Barium	73	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:02	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 07:46	JMW	EPA 6020A
Boron	420	ug/L		03/16/23 08:55	5	10	03/28/23 07:46	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:02	JMW	EPA 6020A
Calcium	96	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:02	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:02	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:02	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:02	JMW	EPA 6020A
Magnesium	63	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:46	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:02	JMW	EPA 6020A
Potassium	0.37	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:02	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:02	JMW	EPA 6020A
Sodium	67	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:46	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:02	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-02
Name: APW03
Matrix: Ground Water - Grab

Sampled: 03/14/23 15:27
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:22	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-03
Name: APW04
Matrix: Ground Water - Grab

Sampled: 03/14/23 14:14
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	31	mg/L		03/17/23 18:43	10	10	03/17/23 18:43	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/17/23 18:25	1	0.250	03/17/23 18:25	CRD	EPA 300.0 REV 2.1
Sulfate	760	mg/L		03/17/23 19:01	250	250	03/17/23 19:01	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.05	Feet		03/14/23 14:14	1		03/14/23 14:14	FIELD	Field*
Dissolved oxygen, Field	3.1	mg/L		03/14/23 14:14	1		03/14/23 14:14	FIELD	Field*
Oxidation Reduction Potential	278	mV		03/14/23 14:14	1	-500	03/14/23 14:14	FIELD	Field*
pH, Field Measured	7.38	pH Units		03/14/23 14:14	1		03/14/23 14:14	FIELD	Field*
Specific Conductance, Field Measured	2140	umhos/cm		03/14/23 14:14	1		03/14/23 14:14	FIELD	Field*
Temperature, Field Measured	11.4	°C		03/14/23 14:14	1		03/14/23 14:14	FIELD	Field*
Turbidity, Field Measured	613	NTU		03/14/23 14:14	1	0.00	03/14/23 14:14	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	490	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1600	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:06	JMW	EPA 6020A
Arsenic	1.8	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:06	JMW	EPA 6020A
Barium	37	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:06	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 07:49	JMW	EPA 6020A
Boron	34	ug/L		03/16/23 08:55	5	10	03/28/23 07:49	JMW	EPA 6020A
Cadmium	1.4	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:06	JMW	EPA 6020A
Calcium	220	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:06	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:06	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:06	JMW	EPA 6020A
Lead	1.8	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:06	JMW	EPA 6020A
Magnesium	200	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:49	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:06	JMW	EPA 6020A
Potassium	1.8	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:06	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:06	JMW	EPA 6020A
Sodium	110	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:49	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:06	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-03
Name: APW04
Matrix: Ground Water - Grab

Sampled: 03/14/23 14:14
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:23	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-04
Name: APW05
Matrix: Ground Water - Grab

Sampled: 03/14/23 16:38
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	44	mg/L	Q4	03/17/23 20:49	10	10	03/17/23 20:49	CRD	EPA 300.0 REV 2.1
Fluoride	0.468	mg/L		03/17/23 19:19	1	0.250	03/17/23 19:19	CRD	EPA 300.0 REV 2.1
Sulfate	1.1	mg/L	Q4	03/17/23 19:19	1	1.0	03/17/23 19:19	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.2	Feet		03/14/23 16:38	1		03/14/23 16:38	FIELD	Field*
Dissolved oxygen, Field	4.2	mg/L		03/14/23 16:38	1		03/14/23 16:38	FIELD	Field*
Oxidation Reduction Potential	192	mV		03/14/23 16:38	1	-500	03/14/23 16:38	FIELD	Field*
pH, Field Measured	7.64	pH Units		03/14/23 16:38	1		03/14/23 16:38	FIELD	Field*
Specific Conductance, Field Measured	903.0	umhos/cm		03/14/23 16:38	1		03/14/23 16:38	FIELD	Field*
Temperature, Field Measured	12.2	°C		03/14/23 16:38	1		03/14/23 16:38	FIELD	Field*
Turbidity, Field Measured	109	NTU		03/14/23 16:38	1	0.00	03/14/23 16:38	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	480	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	480	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	490	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:10	JMW	EPA 6020A
Arsenic	18	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:10	JMW	EPA 6020A
Barium	280	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 07:51	JMW	EPA 6020A
Boron	120	ug/L		03/16/23 08:55	5	10	03/28/23 07:51	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:10	JMW	EPA 6020A
Calcium	56	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:10	JMW	EPA 6020A
Lead	1.5	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:10	JMW	EPA 6020A
Magnesium	33	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:51	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:10	JMW	EPA 6020A
Potassium	1.7	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:10	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:10	JMW	EPA 6020A
Sodium	160	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:51	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:10	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-04
Name: APW05
Matrix: Ground Water - Grab

Sampled: 03/14/23 16:38
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:24	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-05
Name: APW05S
Matrix: Ground Water - Grab

Sampled: 03/14/23 17:34
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	200	mg/L		03/17/23 21:43	100	100	03/17/23 21:43	CRD	EPA 300.0 REV 2.1
Fluoride	0.478	mg/L		03/17/23 21:07	1	0.250	03/17/23 21:07	CRD	EPA 300.0 REV 2.1
Sulfate	1900	mg/L		03/20/23 14:49	250	250	03/20/23 14:49	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.39	Feet		03/14/23 17:34	1		03/14/23 17:34	FIELD	Field*
Dissolved oxygen, Field	4.0	mg/L		03/14/23 17:34	1		03/14/23 17:34	FIELD	Field*
Oxidation Reduction Potential	203	mV		03/14/23 17:34	1	-500	03/14/23 17:34	FIELD	Field*
pH, Field Measured	7.07	pH Units		03/14/23 17:34	1		03/14/23 17:34	FIELD	Field*
Specific Conductance, Field Measured	974.0	umhos/cm		03/14/23 17:34	1		03/14/23 17:34	FIELD	Field*
Temperature, Field Measured	8.3	°C		03/14/23 17:34	1		03/14/23 17:34	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		03/14/23 17:34	1	0.00	03/14/23 17:34	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	550	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	550	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	4000	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:14	JMW	EPA 6020A
Arsenic	3.8	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:14	JMW	EPA 6020A
Barium	92	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:14	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 07:54	JMW	EPA 6020A
Boron	60	ug/L		03/16/23 08:55	5	10	03/28/23 07:54	JMW	EPA 6020A
Cadmium	1.2	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:14	JMW	EPA 6020A
Calcium	430	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:14	JMW	EPA 6020A
Chromium	41	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:14	JMW	EPA 6020A
Cobalt	3.7	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:14	JMW	EPA 6020A
Lead	3.3	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:14	JMW	EPA 6020A
Magnesium	350	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:54	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:14	JMW	EPA 6020A
Potassium	2.5	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:14	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:14	JMW	EPA 6020A
Sodium	310	mg/L		03/16/23 08:55	5	0.10	03/28/23 07:54	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:14	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-05
Name: APW05S
Matrix: Ground Water - Grab

Sampled: 03/14/23 17:34
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	37	ug/L		03/16/23 08:55	1	20	03/21/23 11:30	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-06
Name: APW06
Matrix: Ground Water - Grab

Sampled: 03/15/23 13:18
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L		03/17/23 22:20	10	10	03/17/23 22:20	CRD	EPA 300.0 REV 2.1
Fluoride	0.493	mg/L		03/17/23 22:01	1	0.250	03/17/23 22:01	CRD	EPA 300.0 REV 2.1
Sulfate	6.8	mg/L		03/17/23 22:01	1	1.0	03/17/23 22:01	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	19.5	Feet		03/15/23 13:18	1		03/15/23 13:18	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		03/15/23 13:18	1		03/15/23 13:18	FIELD	Field*
Oxidation Reduction Potential	129	mV		03/15/23 13:18	1	-500	03/15/23 13:18	FIELD	Field*
pH, Field Measured	7.53	pH Units		03/15/23 13:18	1		03/15/23 13:18	FIELD	Field*
Specific Conductance, Field Measured	1080	umhos/cm		03/15/23 13:18	1		03/15/23 13:18	FIELD	Field*
Temperature, Field Measured	13.6	°C		03/15/23 13:18	1		03/15/23 13:18	FIELD	Field*
Turbidity, Field Measured	19.1	NTU		03/15/23 13:18	1	0.00	03/15/23 13:18	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	480	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	480	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	500	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:37	JMW	EPA 6020A
Arsenic	4.9	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:37	JMW	EPA 6020A
Barium	210	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:37	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:19	JMW	EPA 6020A
Boron	94	ug/L		03/16/23 08:55	5	10	03/28/23 08:19	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:37	JMW	EPA 6020A
Calcium	54	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:37	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:37	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:37	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:37	JMW	EPA 6020A
Magnesium	29	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:19	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:37	JMW	EPA 6020A
Potassium	1.4	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:37	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:37	JMW	EPA 6020A
Sodium	130	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:19	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:37	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-06
Name: APW06
Matrix: Ground Water - Grab

Sampled: 03/15/23 13:18
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:31	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-07
Name: APW11
Matrix: Ground Water - Grab

Sampled: 03/15/23 10:12
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L		03/17/23 22:56	10	10	03/17/23 22:56	CRD	EPA 300.0 REV 2.1
Fluoride	0.311	mg/L		03/17/23 22:38	1	0.250	03/17/23 22:38	CRD	EPA 300.0 REV 2.1
Sulfate	270	mg/L		03/17/23 23:50	100	100	03/17/23 23:50	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.27	Feet		03/15/23 10:12	1		03/15/23 10:12	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		03/15/23 10:12	1		03/15/23 10:12	FIELD	Field*
Oxidation Reduction Potential	145	mV		03/15/23 10:12	1	-500	03/15/23 10:12	FIELD	Field*
pH, Field Measured	7.24	pH Units		03/15/23 10:12	1		03/15/23 10:12	FIELD	Field*
Specific Conductance, Field Measured	1360	umhos/cm		03/15/23 10:12	1		03/15/23 10:12	FIELD	Field*
Temperature, Field Measured	11.5	°C		03/15/23 10:12	1		03/15/23 10:12	FIELD	Field*
Turbidity, Field Measured	170	NTU		03/15/23 10:12	1	0.00	03/15/23 10:12	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	420	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	420	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	820	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:41	JMW	EPA 6020A
Arsenic	8.1	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:41	JMW	EPA 6020A
Barium	45	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:22	JMW	EPA 6020A
Boron	63	ug/L		03/16/23 08:55	5	10	03/28/23 08:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:41	JMW	EPA 6020A
Calcium	110	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:41	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:41	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:41	JMW	EPA 6020A
Lead	2.4	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:41	JMW	EPA 6020A
Magnesium	55	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:22	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:41	JMW	EPA 6020A
Potassium	1.5	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:41	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:41	JMW	EPA 6020A
Sodium	93	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:22	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:41	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-07
Name: APW11
Matrix: Ground Water - Grab

Sampled: 03/15/23 10:12
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:32	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-08
Name: APW12
Matrix: Ground Water - Grab

Sampled: 03/15/23 11:15
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	22	mg/L		03/18/23 00:26	10	10	03/18/23 00:26	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/18/23 00:08	1	0.250	03/18/23 00:08	CRD	EPA 300.0 REV 2.1
Sulfate	56	mg/L		03/18/23 00:44	10	10	03/18/23 00:44	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.5	Feet		03/15/23 11:15	1		03/15/23 11:15	FIELD	Field*
Dissolved oxygen, Field	0.43	mg/L		03/15/23 11:15	1		03/15/23 11:15	FIELD	Field*
Oxidation Reduction Potential	85.0	mV		03/15/23 11:15	1	-500	03/15/23 11:15	FIELD	Field*
pH, Field Measured	6.50	pH Units		03/15/23 11:15	1		03/15/23 11:15	FIELD	Field*
Specific Conductance, Field Measured	2080	umhos/cm		03/15/23 11:15	1		03/15/23 11:15	FIELD	Field*
Temperature, Field Measured	11.6	°C		03/15/23 11:15	1		03/15/23 11:15	FIELD	Field*
Turbidity, Field Measured	34.8	NTU		03/15/23 11:15	1	0.00	03/15/23 11:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	650	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	650	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1400	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:47	JMW	EPA 6020A
Arsenic	2.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:47	JMW	EPA 6020A
Barium	38	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:47	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:25	JMW	EPA 6020A
Boron	420	ug/L		03/16/23 08:55	5	10	03/28/23 08:25	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:47	JMW	EPA 6020A
Calcium	230	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:47	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:47	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:47	JMW	EPA 6020A
Lead	1.1	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:47	JMW	EPA 6020A
Magnesium	120	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:25	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:47	JMW	EPA 6020A
Potassium	1.1	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:47	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:47	JMW	EPA 6020A
Sodium	130	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:25	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:47	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-08
Name: APW12
Matrix: Ground Water - Grab

Sampled: 03/15/23 11:15
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	24	ug/L		03/16/23 08:55	1	20	03/21/23 11:34	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-09
Name: APW13
Matrix: Ground Water - Grab

Sampled: 03/14/23 16:50
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	47	mg/L		03/18/23 01:20	25	25	03/18/23 01:20	CRD	EPA 300.0 REV 2.1
Fluoride	0.376	mg/L		03/18/23 01:02	1	0.250	03/18/23 01:02	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L		03/20/23 15:07	50	50	03/20/23 15:07	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	32.2	Feet		03/14/23 16:50	1		03/14/23 16:50	FIELD	Field*
Dissolved oxygen, Field	0.26	mg/L		03/14/23 16:50	1		03/14/23 16:50	FIELD	Field*
Oxidation Reduction Potential	28.0	mV		03/14/23 16:50	1	-500	03/14/23 16:50	FIELD	Field*
pH, Field Measured	7.23	pH Units		03/14/23 16:50	1		03/14/23 16:50	FIELD	Field*
Specific Conductance, Field Measured	1470	umhos/cm		03/14/23 16:50	1		03/14/23 16:50	FIELD	Field*
Temperature, Field Measured	12.1	°C		03/14/23 16:50	1		03/14/23 16:50	FIELD	Field*
Turbidity, Field Measured	21.3	NTU		03/14/23 16:50	1	0.00	03/14/23 16:50	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	460	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	460	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	890	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:51	JMW	EPA 6020A
Arsenic	2.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:51	JMW	EPA 6020A
Barium	57	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:51	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:28	JMW	EPA 6020A
Boron	120	ug/L		03/16/23 08:55	5	10	03/28/23 08:28	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:51	JMW	EPA 6020A
Calcium	120	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:51	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:51	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:51	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:51	JMW	EPA 6020A
Magnesium	68	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:28	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:51	JMW	EPA 6020A
Potassium	2.1	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:51	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:51	JMW	EPA 6020A
Sodium	140	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:28	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:51	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-09
Name: APW13
Matrix: Ground Water - Grab

Sampled: 03/14/23 16:50
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	25	ug/L		03/16/23 08:55	1	20	03/21/23 11:35	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-10
Name: APW14
Matrix: Ground Water - Grab

Sampled: 03/14/23 15:43
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	39	mg/L		03/18/23 01:56	10	10	03/18/23 01:56	CRD	EPA 300.0 REV 2.1
Fluoride	0.278	mg/L		03/18/23 01:38	1	0.250	03/18/23 01:38	CRD	EPA 300.0 REV 2.1
Sulfate	330	mg/L		03/18/23 02:15	100	100	03/18/23 02:15	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.81	Feet		03/14/23 15:43	1		03/14/23 15:43	FIELD	Field*
Dissolved oxygen, Field	2.8	mg/L		03/14/23 15:43	1		03/14/23 15:43	FIELD	Field*
Oxidation Reduction Potential	-14.0	mV		03/14/23 15:43	1	-500	03/14/23 15:43	FIELD	Field*
pH, Field Measured	7.42	pH Units		03/14/23 15:43	1		03/14/23 15:43	FIELD	Field*
Specific Conductance, Field Measured	1560	umhos/cm		03/14/23 15:43	1		03/14/23 15:43	FIELD	Field*
Temperature, Field Measured	11.5	°C		03/14/23 15:43	1		03/14/23 15:43	FIELD	Field*
Turbidity, Field Measured	118	NTU		03/14/23 15:43	1	0.00	03/14/23 15:43	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	460	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	460	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	960	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:55	JMW	EPA 6020A
Arsenic	10	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:55	JMW	EPA 6020A
Barium	110	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:55	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:31	JMW	EPA 6020A
Boron	110	ug/L		03/16/23 08:55	5	10	03/28/23 08:31	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:55	JMW	EPA 6020A
Calcium	140	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:55	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:55	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:55	JMW	EPA 6020A
Lead	1.8	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:55	JMW	EPA 6020A
Magnesium	74	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:55	JMW	EPA 6020A
Potassium	2.0	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:55	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:55	JMW	EPA 6020A
Sodium	150	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:55	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-10
Name: APW14
Matrix: Ground Water - Grab

Sampled: 03/14/23 15:43
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:36	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-11
Name: APW15
Matrix: Ground Water - Grab

Sampled: 03/14/23 14:31
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	230	mg/L		03/18/23 03:27	50	50	03/18/23 03:27	CRD	EPA 300.0 REV 2.1
Fluoride	0.348	mg/L		03/18/23 02:33	1	0.250	03/18/23 02:33	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/18/23 02:33	1	1.0	03/18/23 02:33	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	22	Feet		03/14/23 14:31	1		03/14/23 14:31	FIELD	Field*
Dissolved oxygen, Field	0.62	mg/L		03/14/23 14:31	1		03/14/23 14:31	FIELD	Field*
Oxidation Reduction Potential	-59.0	mV		03/14/23 14:31	1	-500	03/14/23 14:31	FIELD	Field*
pH, Field Measured	7.19	pH Units		03/14/23 14:31	1		03/14/23 14:31	FIELD	Field*
Specific Conductance, Field Measured	2160	umhos/cm		03/14/23 14:31	1		03/14/23 14:31	FIELD	Field*
Temperature, Field Measured	12.0	°C		03/14/23 14:31	1		03/14/23 14:31	FIELD	Field*
Turbidity, Field Measured	58.3	NTU		03/14/23 14:31	1	0.00	03/14/23 14:31	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	710	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	710	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L	M	03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 15:59	JMW	EPA 6020A
Arsenic	24	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:59	JMW	EPA 6020A
Barium	560	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:59	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:34	JMW	EPA 6020A
Boron	180	ug/L		03/16/23 08:55	5	10	03/28/23 08:34	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:59	JMW	EPA 6020A
Calcium	99	mg/L		03/16/23 08:55	5	0.20	03/27/23 15:59	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 15:59	JMW	EPA 6020A
Cobalt	2.2	ug/L		03/16/23 08:55	5	2.0	03/27/23 15:59	JMW	EPA 6020A
Lead	3.4	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:59	JMW	EPA 6020A
Magnesium	46	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:34	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 15:59	JMW	EPA 6020A
Potassium	3.2	mg/L		03/16/23 08:55	5	0.10	03/27/23 15:59	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:59	JMW	EPA 6020A
Sodium	320	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:34	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 15:59	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-11
Name: APW15
Matrix: Ground Water - Grab

Sampled: 03/14/23 14:31
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:37	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-12
Name: APW16
Matrix: Ground Water - Grab

Sampled: 03/15/23 12:20
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	65	mg/L		03/18/23 04:03	10	10	03/18/23 04:03	CRD	EPA 300.0 REV 2.1
Fluoride	0.630	mg/L		03/18/23 03:45	1	0.250	03/18/23 03:45	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/18/23 03:45	1	1.0	03/18/23 03:45	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	40.25	Feet		03/15/23 12:20	1		03/15/23 12:20	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		03/15/23 12:20	1		03/15/23 12:20	FIELD	Field*
Oxidation Reduction Potential	1.00	mV		03/15/23 12:20	1	-500	03/15/23 12:20	FIELD	Field*
pH, Field Measured	7.42	pH Units		03/15/23 12:20	1		03/15/23 12:20	FIELD	Field*
Specific Conductance, Field Measured	1320	umhos/cm		03/15/23 12:20	1		03/15/23 12:20	FIELD	Field*
Temperature, Field Measured	11.7	°C		03/15/23 12:20	1		03/15/23 12:20	FIELD	Field*
Turbidity, Field Measured	20.5	NTU		03/15/23 12:20	1	0.00	03/15/23 12:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	650	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	650	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1300	mg/L		03/16/23 11:35	1	26	03/16/23 15:09	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 16:03	JMW	EPA 6020A
Arsenic	22	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:03	JMW	EPA 6020A
Barium	520	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:03	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:37	JMW	EPA 6020A
Boron	150	ug/L		03/16/23 08:55	5	10	03/28/23 08:37	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:03	JMW	EPA 6020A
Calcium	95	mg/L		03/16/23 08:55	5	0.20	03/27/23 16:03	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 16:03	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 16:03	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:03	JMW	EPA 6020A
Magnesium	48	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:37	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 16:03	JMW	EPA 6020A
Potassium	1.9	mg/L		03/16/23 08:55	5	0.10	03/27/23 16:03	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:03	JMW	EPA 6020A
Sodium	160	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:37	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:03	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-12
Name: APW16
Matrix: Ground Water - Grab

Sampled: 03/15/23 12:20
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:38	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-13
Name: APW17
Matrix: Ground Water - Grab

Sampled: 03/15/23 11:19
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	51	mg/L		03/18/23 04:39	10	10	03/18/23 04:39	CRD	EPA 300.0 REV 2.1
Fluoride	0.449	mg/L		03/18/23 04:21	1	0.250	03/18/23 04:21	CRD	EPA 300.0 REV 2.1
Sulfate	49	mg/L		03/18/23 04:39	10	10	03/18/23 04:39	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	41.27	Feet		03/15/23 11:19	1		03/15/23 11:19	FIELD	Field*
Dissolved oxygen, Field	5.4	mg/L		03/15/23 11:19	1		03/15/23 11:19	FIELD	Field*
Oxidation Reduction Potential	172	mV		03/15/23 11:19	1	-500	03/15/23 11:19	FIELD	Field*
pH, Field Measured	7.49	pH Units		03/15/23 11:19	1		03/15/23 11:19	FIELD	Field*
Specific Conductance, Field Measured	1120	umhos/cm		03/15/23 11:19	1		03/15/23 11:19	FIELD	Field*
Temperature, Field Measured	9.2	°C		03/15/23 11:19	1		03/15/23 11:19	FIELD	Field*
Turbidity, Field Measured	36.8	NTU		03/15/23 11:19	1	0.00	03/15/23 11:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	550	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	550	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	660	mg/L		03/20/23 15:24	1	26	03/20/23 16:10	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 16:06	JMW	EPA 6020A
Arsenic	24	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:06	JMW	EPA 6020A
Barium	600	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:06	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:40	JMW	EPA 6020A
Boron	97	ug/L		03/16/23 08:55	5	10	03/28/23 08:40	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:06	JMW	EPA 6020A
Calcium	110	mg/L		03/16/23 08:55	5	0.20	03/27/23 16:06	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 16:06	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 16:06	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:06	JMW	EPA 6020A
Magnesium	53	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:40	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 16:06	JMW	EPA 6020A
Potassium	1.8	mg/L		03/16/23 08:55	5	0.10	03/27/23 16:06	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:06	JMW	EPA 6020A
Sodium	100	mg/L		03/16/23 08:55	5	0.10	03/28/23 08:40	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:06	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-13
Name: APW17
Matrix: Ground Water - Grab

Sampled: 03/15/23 11:19
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:40	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GC02777-14
Name: APW18
Matrix: Ground Water - Grab

Sampled: 03/15/23 10:24
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L	Q4	03/18/23 05:51	10	10	03/18/23 05:51	CRD	EPA 300.0 REV 2.1
Fluoride	0.505	mg/L		03/18/23 04:57	1	0.250	03/18/23 04:57	CRD	EPA 300.0 REV 2.1
Sulfate	51	mg/L	Q4	03/18/23 05:51	10	10	03/18/23 05:51	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	51.84	Feet		03/15/23 10:24	1		03/15/23 10:24	FIELD	Field*
Dissolved oxygen, Field	7.6	mg/L		03/15/23 10:24	1		03/15/23 10:24	FIELD	Field*
Oxidation Reduction Potential	144	mV		03/15/23 10:24	1	-500	03/15/23 10:24	FIELD	Field*
pH, Field Measured	7.75	pH Units		03/15/23 10:24	1		03/15/23 10:24	FIELD	Field*
Specific Conductance, Field Measured	1000	umhos/cm		03/15/23 10:24	1		03/15/23 10:24	FIELD	Field*
Temperature, Field Measured	8.0	°C		03/15/23 10:24	1		03/15/23 10:24	FIELD	Field*
Turbidity, Field Measured	141	NTU		03/15/23 10:24	1	0.00	03/15/23 10:24	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	500	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	500	mg/L		03/23/23 11:50	1	10	03/23/23 11:50	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	630	mg/L	M	03/20/23 15:24	1	26	03/20/23 16:10	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		03/16/23 08:55	5	3.0	03/27/23 16:10	JMW	EPA 6020A
Arsenic	3.3	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:10	JMW	EPA 6020A
Barium	360	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/28/23 08:43	JMW	EPA 6020A
Boron	120	ug/L		03/16/23 08:55	5	10	03/28/23 08:43	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:10	JMW	EPA 6020A
Calcium	75	mg/L		03/16/23 08:55	5	0.20	03/27/23 16:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/16/23 08:55	5	4.0	03/27/23 16:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/16/23 08:55	5	2.0	03/27/23 16:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:10	JMW	EPA 6020A
Magnesium	44	mg/L	Q4	03/16/23 08:55	5	0.10	03/28/23 08:43	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/16/23 08:55	5	0.20	03/27/23 16:10	JMW	EPA 6020A
Potassium	3.2	mg/L		03/16/23 08:55	5	0.10	03/27/23 16:10	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:10	JMW	EPA 6020A
Sodium	120	mg/L	Q4	03/16/23 08:55	5	0.10	03/28/23 08:43	JMW	EPA 6020A
Thallium	< 1.0	ug/L		03/16/23 08:55	5	1.0	03/27/23 16:10	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GC02777-14
Name: APW18
Matrix: Ground Water - Grab

Sampled: 03/15/23 10:24
Received: 03/15/23 14:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		03/16/23 08:55	1	20	03/21/23 11:41	TJJ	EPA 6010B

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B328333 - SW 3015 - EPA 6010B									
Blank (B328333-BLK1)				Prepared: 03/16/23 Analyzed: 03/21/23					
Lithium	< 20	ug/L							
LCS (B328333-BS1)				Prepared: 03/16/23 Analyzed: 03/21/23					
Lithium	527	ug/L		555.6		95	80-120		
Matrix Spike (B328333-MS2)	**Sample: GC02777-14**			Prepared: 03/16/23 Analyzed: 03/21/23					
Lithium	524	ug/L		555.6	ND	94	75-125		
Matrix Spike Dup (B328333-MSD2)	**Sample: GC02777-14**			Prepared: 03/16/23 Analyzed: 03/21/23					
Lithium	523	ug/L		555.6	ND	94	75-125	0.2	200
Batch B328333 - SW 3015 - EPA 6020A									
Blank (B328333-BLK1)				Prepared: 03/16/23 Analyzed: 03/27/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B328333-BS1)				Prepared: 03/16/23 Analyzed: 03/27/23					
Antimony	539	ug/L		555.6		97	80-120		
Arsenic	535	ug/L		555.6		96	80-120		
Barium	530	ug/L		555.6		95	80-120		
Beryllium	546	ug/L		555.6		98	80-120		
Boron	549	ug/L		555.6		99	80-120		
Cadmium	535	ug/L		555.6		96	80-120		
Calcium	5.83	mg/L		5.556		105	80-120		
Chromium	534	ug/L		555.6		96	80-120		
Cobalt	529	ug/L		555.6		95	80-120		
Lead	536	ug/L		555.6		96	80-120		
Magnesium	6.03	mg/L		5.556		109	80-120		
Mercury	51.6	ug/L		55.56		93	80-120		
Potassium	5.91	mg/L		5.556		106	80-120		
Selenium	541	ug/L		555.6		97	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Thallium	527	ug/L		555.6		95	80-120		
Matrix Spike (B328333-MS2)	**Sample: GC02777-14**			Prepared: 03/16/23 Analyzed: 03/27/23					

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B328333-MS2)	**Sample: GC02777-14**			Prepared: 03/16/23 Analyzed: 03/27/23					
Antimony	519	ug/L		555.6	ND	93	75-125		
Arsenic	551	ug/L		555.6	3.33	99	75-125		
Barium	873	ug/L		555.6	361	92	75-125		
Beryllium	629	ug/L		555.6	ND	113	75-125		
Boron	754	ug/L		555.6	120	114	75-125		
Cadmium	526	ug/L		555.6	ND	95	75-125		
Calcium	79.6	mg/L		5.556	74.7	90	75-125		
Chromium	530	ug/L		555.6	ND	95	75-125		
Cobalt	539	ug/L		555.6	ND	97	75-125		
Lead	539	ug/L		555.6	0.439	97	75-125		
Magnesium	49.0	mg/L	Q4	5.556	43.8	94	75-125		
Mercury	52.8	ug/L		55.56	ND	95	75-125		
Potassium	9.05	mg/L		5.556	3.22	105	75-125		
Selenium	545	ug/L		555.6	ND	98	75-125		
Sodium	128	mg/L	Q4	5.556	124	56	75-125		
Thallium	530	ug/L		555.6	ND	95	75-125		
Matrix Spike Dup (B328333-MSD2)	**Sample: GC02777-14**			Prepared: 03/16/23 Analyzed: 03/27/23					
Antimony	530	ug/L		555.6	ND	95	75-125	2	20
Arsenic	548	ug/L		555.6	3.33	98	75-125	0.6	20
Barium	881	ug/L		555.6	361	94	75-125	1	20
Beryllium	561	ug/L		555.6	ND	101	75-125	11	20
Boron	695	ug/L		555.6	120	103	75-125	8	20
Cadmium	539	ug/L		555.6	ND	97	75-125	2	20
Calcium	80.6	mg/L		5.556	74.7	107	75-125	1	20
Chromium	537	ug/L		555.6	ND	97	75-125	1	20
Cobalt	523	ug/L		555.6	ND	94	75-125	3	20
Lead	530	ug/L		555.6	0.439	95	75-125	2	20
Magnesium	44.9	mg/L	Q4	5.556	43.8	20	75-125	9	20
Mercury	52.9	ug/L		55.56	ND	95	75-125	0.09	20
Potassium	9.03	mg/L		5.556	3.22	105	75-125	0.2	20
Selenium	548	ug/L		555.6	ND	99	75-125	0.6	20
Sodium	115	mg/L	Q4	5.556	124	NR	75-125	10	20
Thallium	522	ug/L		555.6	ND	94	75-125	2	20
Batch B328369 - No Prep - SM 2540C									
Blank (B328369-BLK1)				Prepared & Analyzed: 03/16/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B328369-BS1)				Prepared & Analyzed: 03/16/23					
Solids - total dissolved solids (TDS)	927	mg/L		1000		93	84.9-109		
Duplicate (B328369-DUP1)	**Sample: GC02777-10**			Prepared & Analyzed: 03/16/23					
Solids - total dissolved solids (TDS)	1000	mg/L			965			4	5
Duplicate (B328369-DUP2)	**Sample: GC02777-11**			Prepared & Analyzed: 03/16/23					
Solids - total dissolved solids (TDS)	990	mg/L	M		1060			6	5
Batch B328599 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B328599-MS1)	**Sample: GC02777-04**			Prepared & Analyzed: 03/17/23					
Fluoride	1.90	mg/L		1.500	0.468	95	80-120		

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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 (B328599-MS1)	**Sample: GC02777-04**			Prepared & Analyzed: 03/17/23					
Sulfate	2.56	mg/L	Q4	1.500	1.06	100	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	44	NR	80-120		
Matrix Spike (B328599-MS2)	**Sample: GC02777-14**			Prepared & Analyzed: 03/18/23					
Chloride	9.5	mg/L	Q4	1.500	23	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	50.7	NR	80-120		
Fluoride	1.94	mg/L		1.500	0.505	96	80-120		
Matrix Spike Dup (B328599-MSD1)	**Sample: GC02777-04**			Prepared & Analyzed: 03/17/23					
Chloride	1.0E9	mg/L	Q4	1.500	44	NR	80-120	0	20
Sulfate	2.56	mg/L	Q4	1.500	1.06	100	80-120	0.2	20
Fluoride	1.91	mg/L		1.500	0.468	96	80-120	0.6	20
Matrix Spike Dup (B328599-MSD2)	**Sample: GC02777-14**			Prepared & Analyzed: 03/18/23					
Fluoride	1.95	mg/L		1.500	0.505	96	80-120	0.5	20
Sulfate	1.00E9	mg/L	Q4	1.500	50.7	NR	80-120	0	20
Chloride	8.6	mg/L	Q4	1.500	23	NR	80-120		20
Batch B328641 - No Prep - SM 2540C									
Blank (B328641-BLK1)				Prepared & Analyzed: 03/20/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B328641-BS1)				Prepared & Analyzed: 03/20/23					
Solids - total dissolved solids (TDS)	967	mg/L		1000		97	84.9-109		
Duplicate (B328641-DUP1)	**Sample: GC02777-14**			Prepared & Analyzed: 03/20/23					
Solids - total dissolved solids (TDS)	565	mg/L	M		630			11	5
Batch B329009 - No Prep - SM 2320B 1997									
Duplicate (B329009-DUP2)	**Sample: GC02777-06**			Prepared & Analyzed: 03/23/23					
Alkalinity - carbonate as CaCO3	462	mg/L			475			3	10
Alkalinity - bicarbonate as CaCO3	462	mg/L			475			3	10

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NOTES

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

* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050
TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615
TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553
Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)
Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)
Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807
USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050
Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

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

Gail J Schindler

Certified by: Gail Schindler, Project Manager

WELL/SAMPLE POINT APW02 **Purge Method:** Portable Pump

Date: 3-15-23 Start Time: 11:20 Finish/Sample Time: 12:06

Well Depth (Bottom) From MP: 23.93 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 5.25 ft Total Purge Volume: 1.3 Gal / (L)

Water Column Length: 18.65 ft Max Drawdown: — ft

Well Water Volume: 2.98 (Gal) / L Total Drawdown: 1.10 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	11:31	6.34	100	6.88	5,200	11.88	174	2.26	802
2	11:32	6.36		6.81	5210	11.98	170	2.10	836
3	11:33	6.35		6.80	5,210	12.10	166	2.03	841
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 6.35 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW03 **Purge Method:** Portable Pump

Date: 3-14-23 Start Time: 14:19 Finish/Sample Time: ~~14:27~~ KL 3-14 15:27

Well Depth (Bottom) From MP: 23.49 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 6.85 ft Total Purge Volume: 1.3 Gal (L)

Water Column Length: 16.64 ft Max Drawdown: — ft

Well Water Volume: 2.66 (Gal) / L Total Drawdown: 3.97 ft

Reading (Units)	Time KL 3-14	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	14:43	8.39	100	7.11	1,140	11.22	226	4.66	255
2	14:44	8.76		7.09	1,160	11.35	224	4.82	190
3	14:45	8.98		7.05	1,130	11.48	225	4.89	182
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: 3

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)
1	2.5 L, HNO3

Filtered Qty	Filtered Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 10.82 ft

Comments

Sampler's Signature: [signature]

WELL/SAMPLE POINT APW04 **Purge Method:** Portable Pump

Date: 3-14-23 Start Time: 13:02 KL 3-14 13:20 Finish/Sample Time: 14:14

Well Depth (Bottom) From MP: 22.54 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 7.05 ft Total Purge Volume: 1.3 Gal (L)

Water Column Length: 15.40 ft Max Drawdown: --- ft

Well Water Volume: 2.48 (Gal) / L Total Drawdown: 4.26 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	13:34	9.35	100	7.49	2,180	11.17	279	3.32	781
2	13:35	9.60		7.42	2,160	11.24	280	3.21	631
3	13:36	9.84		7.38	2,140	11.37	278	3.08	613
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:

3

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) 500
1	2.5 L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 11.31 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW05 **Purge Method:** Bladder

Date: 3-14-23 Start Time: ~~14:35~~ EL 3-14 15:35 Finish/Sample Time: 16:38

Well Depth (Bottom) From MP: 63.31 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 14.20 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 49.11 ft Max Drawdown: — ft

Well Water Volume: 7.86 Gal / L Total Drawdown: 0.10 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	15:55	14.32	100	7.67	904	12.17	193	4.14	179
2	15:56	14.27		7.65	903	12.22	194	4.20	133
3	15:57	14.29		7.64	903	12.24	192	4.23	109
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:

Odor: ☑ None ☐ Slight ☐ Mod. ☐ Strong

Color ☑ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☑ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION: 3

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~~ 500mL)
1	2.5 L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 14.30 ft

Comments

Sampler's Signature: [signature]

WELL/SAMPLE POINT APWOSs **Purge Method:** Portable Pump

Date: 3-14-23 Start Time: ~~17~~ KL 16.40 Finish/Sample Time: 17.34

Well Depth (Bottom) From MP: 23.11 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 10.39 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 12.72 ft Max Drawdown: — ft

Well Water Volume: 2.03 Gal / L Total Drawdown: 0.33 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		10.7 (ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	16.53	~~10.71~~	100	7.11	975	8.34	202	4.03	0
2	16.54	10.75		7.08	976	8.29	203	4.06	0
3	16.55	10.73		7.07	974	8.31	203	3.97	0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:

Odor: ☑ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☑ Mod. ☐ Strong

Turb: ☑ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 10.72 ft

Comments

Sampler's Signature: [signature]

WELL/SAMPLE POINT APW06 **Purge Method:** Portable pump

Date: 3-15-23 Start Time: 12:30 Finish/Sample Time: 13:18

Well Depth (Bottom) From MP: 75.65 ft Min. Purge Volume: 1.0 Gal / (L)

Depth to Water From MP: 19.50 ft Total Purge Volume: 1.3 Gal (L)

Water Column Length: 56.15 ft Max Drawdown: — ft

Well Water Volume: 8.98 (Gal)/(L) Total Drawdown: 0.36 ft

APB 3/15/23

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	12:44	19.84	100	7.29	1,130	13.44	123	2.79	20.2
2	12:45	19.82		7.40	1,100	13.61	128	2.64	17.0
3	12:46	19.83		7.53	1,080	13.63	129	2.55	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:

3

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) 500
1	2.5L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 19.86 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW 11 **Purge Method:** bladder

Date: 3/15/2023 Start Time: 0921 Finish/Sample Time: 1012

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

Depth to Water From MP: 24.27 ft Total Purge Volume: 1000 Gal / L (mi)

Water Column Length: _____ ft Max Drawdown: — ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.05 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	0933	24.32	100	7.28	1370	11.32	153	1.39	171
2	0935	24.32	100	7.28	1360	11.44	151	1.42	171
3	0937	24.32	100	7.24	1360	11.47	145	1.39	170
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250 mL~~) 500mL
1	P, 2-SL, HNO3

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 24.32 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW 12 **Purge Method:** bladder

Date: 3/15/2023 (APP 3/16/23) Start Time: 1015 Finish/Sample Time: 1115

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

Depth to Water From MP: 14.50 ft Total Purge Volume: 1000 Gal / (mL)

Water Column Length: _____ ft Max Drawdown: — ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.00 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	1030	14.50	100	6.51	2060	11.61	86	0.96	30.3
2	1032	14.50	100	6.51	2060	11.60	87	0.58	33.1
3	1034	14.50	100	6.51	2070	11.62	85	0.51	32.2
4	1036	14.50	100	6.50	2080	11.64	85	0.43	34.8
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

(3)

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 14.50 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW 13 **Purge Method:** bladder

Date: 3/14/2023 Start Time: ~~1518~~ 1558 RPP 3/14/23 Finish/Sample Time: 1650

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

Depth to Water From MP: 32.20 ft Total Purge Volume: 1000 Gal / L (in L)

Water Column Length: _____ ft Max Drawdown: _____ ft

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

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)	1613	(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	~~1613~~	32.30	100	7.24	1470	12.11	31	0.33	21.6
2	1615	32.30	100	7.22	1470	12.13	31	0.25	21.4
3	1617	32.30	100	7.23	1470	12.12	28	0.26	21.3
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, 250 mL)
1	P, 2.5 L, HNO3

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: _____ ft

Comments _____

Sampler's Signature: _____

WELL/SAMPLE POINT APW 14 **Purge Method:** tw bladder APP 3/14/23

Date: 3/14/2023 Start Time: 1452 Finish/Sample Time: 1543

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

Depth to Water From MP: 20.81 ft Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.01 ft

3/14/23 APP

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)	~~1450~~	(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	~~1505~~	20.82	100	7.45	1570	11.58	-4	2.69	130
2	~~1507~~ 1507	20.82	100	7.44	1560	11.62	-8	2.64	127
3	1509	20.82	100	7.42	1560	11.51	-14	2.60	118
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 20.82 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW15 **Purge Method:** bladder TH31

Date: 3/14/2023 Start Time: 1339 Finish/Sample Time: ~~1334~~ APP 3/14/23

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

Depth to Water From MP: 22.00 ft Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: _____ ft Max Drawdown: — ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.52 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	1354	22.52	100	7.18	2170	11.99	-40	0.74	67.3
2	1356	22.52	100	7.17	2170	11.97	-55	0.64	59.3
3	1358	22.52	100	7.19	2160	11.97	-59	0.62	58.3
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:

(3)

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, ~~250mL~~ 500mL)
1	(P, 2.5L, HNO3)

Filtered Qty	Filtered Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 22.52 ft

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW16 **Purge Method:** bladder

Date: 3/15/2023 Start Time: 1122 Finish/Sample Time: 1220

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

Depth to Water From MP: 40.25 ft Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: _____ ft Max Drawdown: — ft

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

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		(ft.)	(mL/min)	(s.u.)	(umhos/cm)	(deg C)	(mV)	(mg/L)	(NTU)
1	1136	40.25	100	7.39	1170	11.78	78	2.28	25.8
2	1138	40.25	100	7.39	1190	11.79	68	2.25	23.1
3	1140	40.25	100	7.39	1290	11.69	19	2.21	22.3
4	1142	40.25	100	7.42	1310	11.69	8	2.14	21.6
5	1144	40.25	100	7.42	1320	11.70	1	1.96	20.5
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	J	
Casing locked/secure	J	
Well cap fits securely.	J	
Good seal/drainage	J	
Well has weep holes	J	

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~~) 500mL
1	P, 2.5L, HNO3

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: _____ ft

Comments Vegetation being burned on other side of lake with smoke traveling North toward well

Sampler's Signature:

WELL/SAMPLE POINT APW 17 **Purge Method:** BLADDER

Date: 3-15-23 Start Time: 10:30 Finish/Sample Time: 11:19

Well Depth (Bottom) From MP: 89.07 ft Min. Purge Volume: 1.0 Gal / (L)

Depth to Water From MP: 41.27 ft Total Purge Volume: 1.3 Gal / (L)

Water Column Length: 47.80 ft Max Drawdown: — ft

Well Water Volume: 7.65 (Gal) / L Total Drawdown: 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	10:42	41.24	100	7.53	1,130	9.00	171	5.44	40.3
2	10:43	41.22		7.50	1,120	9.16	172	5.33	35.7
3	10:44	41.21		7.49	1,120	9.24	172	5.35	36.8
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☑ None ☐ Slight ☐ Mod. ☐ Strong

Color ☑ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☑ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

3

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)
KL	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~ 500 mL)
1	2.5, L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: ~~41.4~~ KL 3-15 ft 41.23

Comments

Sampler's Signature:

WELL/SAMPLE POINT APW 18 **Purge Method:** Bladder

Date: 3-15-23 Start Time: 09:36 Finish/Sample Time: 10 24

Well Depth (Bottom) From MP: 76.30 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 51.84 ft Total Purge Volume: 13 Gal (L)

Water Column Length: 24.46 ft Max Drawdown: — ft

Well Water Volume: 3.91 (Gal) L Total Drawdown: 0 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	09:48	51.85	100	7.90	1,020	7.88	142	7.91	152
2	09:49	51.87		7.86	1,010	7.99	144	7.77	137
3	09:50	51.86		7.75	1,000	7.96	144	7.58	141
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:

3

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~~ 500 mL)
1	2, 5, 4, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	In-Line Filters Used

Final DTW: 51.84 ft

Comments

Sampler's Signature:

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Rumberger	Location:	Newton
Weather:	36°-41°F cloudy mostly, wind NW 9mph	Environment:	grass, dirt, mud, gravel
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: PW26KJD3
Water Level Meter	Make: Heron	Model: Dipper	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	No	N/A	MSI	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	9.96	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	22	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	237	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.6	%	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

24hr @ 10°C

ICV (Initial Calibration Verification)					Time: 1257			
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	2GC243	Mar-24
pH 7.00b	6.94	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	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1716			
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	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1030	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.08	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:		Date:	3/14/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	39 to 45° Sunny	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	V4V1FV+F	
Water Level Meter	Make: Heron	Model: water tape	Serial Number:	19FF220213ML	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	Na	Na	MSI	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	10.08	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	20.01	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2246	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	194	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.89	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.54	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 13:01

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	P	Na	Geotech	2GC243	Mar-24
pH 7.00b	6.89	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.11	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1003	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 17:50

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.01	s.u.	±0.1 s.u.	P	Na	NA	MSI	L315-04	11/22/2023
7.00a	6.92	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.02	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1017	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.21	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.59	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	3-14-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Anderson	Location:	Newton
Weather:	23°-Light Sunny Wind NW/1mph	Environment:	grass, mud, gravel
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: PW2GKJD3
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	4.00	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.92	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)	14	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	239	mV	±15 mV				InSitu	2G1762	Jun-23
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

24h @ 10 °C

ICV (Initial Calibration Verification)					Time: 0908			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.89	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.02	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1020	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1230			
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	L315-04	11/22/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1040	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:	3/15/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Neton Power
Weather:	28° to 50° Sunny	Environment:	Muddy

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: ~~ZR~~ U4UIFV1F		
Water Level Meter	Make: Heron	Model: Water tape	Serial Number: 19FF220213ML		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.15	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	15.46	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2036	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	245	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.11	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.11	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 09:24

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	7.03	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.01	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1003	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 13:24

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	L315-04	11/22/2023
7.00a	6.94	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1011	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.04	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.46	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	3-15-23

GL08777

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

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

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	NEW_257_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW02	WT	G	3/15/23	1206		3	X		X							X		
2	NEW_APW03	WT	G	3/14/23	1527		3	X		X							X		
3	NEW_APW04	WT	G	3/14/23	1414		3	X		X							X		
4	NEW_APW05	WT	G	3/14/23	1638		3	X		X							X		
5	NEW_APW05#S	WT	G	3/14/23	1734		3	X		X							X		
6	NEW_APW06	WT	G	3/15/23	1318		3	X		X							X		
7	NEW_APW11	WT	G	3/15/23	1012		3	X		X							X		
8	NEW_APW12	WT	G	3/15/23	1115		3	X		X							X		
9	NEW_APW13	WT	G	3/14/23	1650		3	X		X							X		
10	NEW_APW14	WT	G	3/14/23	1543		3	X		X							X		
11	NEW_APW15	WT	G	3/14/23	1431		3	X		X							X		
12	NEW_APW16	WT	G	3/15/23	1220		3	X		X							X		
13	NEW_APW17	WT	G	3/15/23	1119		3	X		X							X		
14	NEW_APW18	WT	G	3/15/23	1024		3	X		X							X		
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)
NEW-23Q1 Rev 1 "Part 2"		3/15/23	1653							
					3/15/23	1653	2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Haron Pemberton
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 03/15/23

AJP 3/16/23

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

April 17, 2023

Terry Hanratty
Vistra - Newton
Newton Energy Center 6725 N. 500th St
Newton, IL 62448

Dear Terry Hanratty:

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 GB00278

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

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

ANALYTICAL RESULTS

Sample: GB00278-01 **Sampled:** 01/31/23 11:38
Name: APW07 **Received:** 02/01/23 15:47
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.09	pCi/L			1	0.646	03/07/23 13:21		904.0 903.0

Sample: GB00278-02 **Sampled:** 01/31/23 13:21
Name: APW08 **Received:** 02/01/23 15:47
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.94	pCi/L			1	0.862	03/07/23 13:21		904.0 903.0

Sample: GB00278-03 **Sampled:** 01/31/23 15:29
Name: APW09 **Received:** 02/01/23 15:47
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.91	pCi/L			1	1.43	03/07/23 13:21		904.0 903.0

Sample: GB00278-04 **Sampled:** 01/31/23 14:28
Name: APW10 **Received:** 02/01/23 15:47
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.590 J	pCi/L			1	1.28	03/07/23 13:21		904.0 903.0

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

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

Gail J Schindler

Certified by: Gail Schindler, Project Manager

Pace Analytical®

ANALYTICAL REPORT

March 08, 2023

Pace IR - Peoria, IL

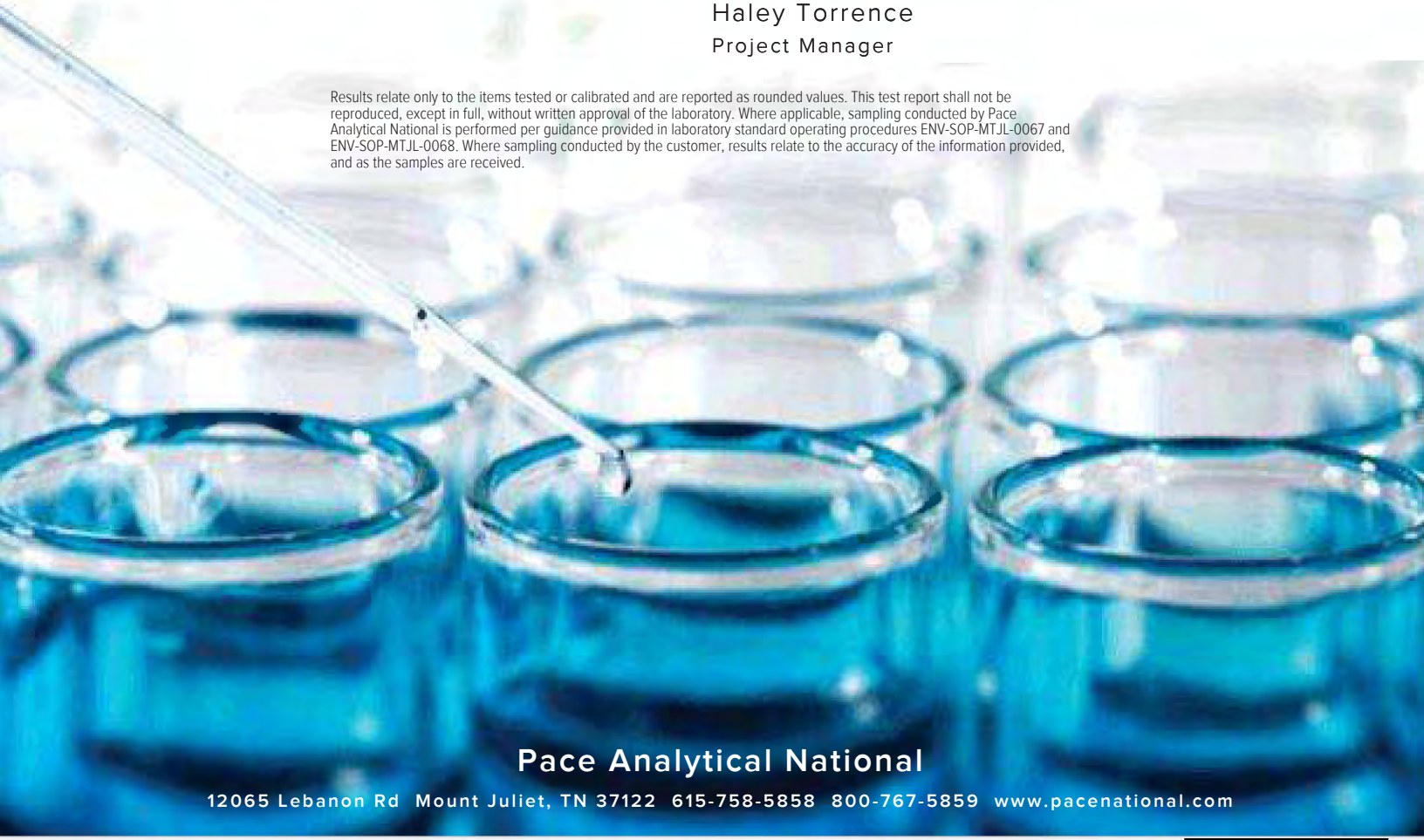
Sample Delivery Group:	L1583413
Samples Received:	02/08/2023
Project Number:	GB00278
Description:	Vistra-Newton
Site:	801
Report To:	Christina Pierce 2231 W. Altorfer Drive Peoria, IL 61615

Entire Report Reviewed By:

[Preliminary Report]

Haley Torrence
Project Manager

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



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

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SAMPLE SUMMARY

APW07 L1583413-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		01/31/23 11:38	02/08/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2012607	1	03/01/23 21:07	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2005240	1	02/14/23 16:36	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2005240	1	02/14/23 16:36	02/26/23 17:29	RGT	Mt. Juliet, TN

APW08 L1583413-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		01/31/23 13:21	02/08/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2012607	1	03/01/23 21:07	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2005240	1	02/14/23 16:36	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2005240	1	02/14/23 16:36	02/26/23 17:29	RGT	Mt. Juliet, TN

APW09 L1583413-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		01/31/23 15:29	02/08/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2012607	1	03/01/23 21:07	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2005240	1	02/14/23 16:36	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2005240	1	02/14/23 16:36	02/26/23 17:29	RGT	Mt. Juliet, TN

APW10 L1583413-04 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		01/31/23 14:28	02/08/23 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2012607	1	03/01/23 21:07	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2005240	1	02/14/23 16:36	03/07/23 13:21	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2005240	1	02/14/23 16:36	02/26/23 17:29	RGT	Mt. Juliet, TN

CASE NARRATIVE

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

[Preliminary Report]

Haley Torrence
Project Manager

APW07 SAMPLE RESULTS - 01
Collected date/time: 01/31/23 11:38 L1583413

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.919		0.320	0.556	03/07/2023 13:21	WG2012607
(T) Barium	*107*			*30.0-143*	*03/07/2023 13:21*	WG2012607
(T) Yttrium	*97.7*			*30.0-136*	*03/07/2023 13:21*	WG2012607

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.09		0.549	0.646	03/07/2023 13:21	WG2005240

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	1.17		0.446	0.328	02/26/2023 17:29	WG2005240
(T) Barium-133	*96.7*			*30.0-143*	*02/26/2023 17:29*	WG2005240

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.21		0.464	0.810	03/07/2023 13:21	WG2012607
(T) Barium	*101*			*30.0-143*	*03/07/2023 13:21*	WG2012607
(T) Yttrium	*85.2*			*30.0-136*	*03/07/2023 13:21*	WG2012607

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.94		0.582	0.862	03/07/2023 13:21	WG2005240

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.732		0.351	0.296	02/26/2023 17:29	WG2005240
(T) Barium-133	*102*			*30.0-143*	*02/26/2023 17:29*	WG2005240

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.95		0.789	1.38	03/07/2023 13:21	WG2012607
(T) Barium	*77.5*			*30.0-143*	*03/07/2023 13:21*	WG2012607
(T) Yttrium	*99.7*			*30.0-136*	*03/07/2023 13:21*	WG2012607

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.91		0.898	1.43	03/07/2023 13:21	WG2005240

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.964		0.428	0.388	02/26/2023 17:29	WG2005240
(T) Barium-133	*98.9*			*30.0-143*	*02/26/2023 17:29*	WG2005240

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0375	U	0.683	1.26	03/07/2023 13:21	WG2012607
(T) Barium	*86.7*			*30.0-143*	*03/07/2023 13:21*	WG2012607
(T) Yttrium	*83.6*			*30.0-136*	*03/07/2023 13:21*	WG2012607

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.590	J	0.743	1.28	03/07/2023 13:21	WG2005240

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.590		0.292	0.230	02/26/2023 17:29	WG2005240
(T) Barium-133	*106*			*30.0-143*	*02/26/2023 17:29*	WG2005240

WG2012607 QUALITY CONTROL SUMMARY

Radiochemistry by Method 9041/9320 L1583413-01,02,03,04

Method Blank (MB)

(MB) R3898552-1 03/07/23 13:21

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.0691	U	0.143	0.262
(T) Barium	*92.4*		*92.4*	
(T) Yttrium	*97.0*		*97.0*	

L1582889-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1582889-01 03/07/23 13:21 • (DUP) R3898552-5 03/07/23 13:21

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.09	0.280	0.477	1.18	0.413	0.477	1	8.47	0.192		20	3
(T) Barium	*98.1*			*80.9*	*80.9*							
(T) Yttrium	*95.3*			*116*	*116*							

Laboratory Control Sample (LCS)

(LCS) R3898552-2 03/07/23 13:21

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.77	115	80.0-120	
(T) Barium			*78.4*		
(T) Yttrium			*103*		

L1582891-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1582891-01 03/07/23 13:21 • (MS) R3898552-3 03/07/23 13:21 • (MSD) R3898552-4 03/07/23 13:21

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.0862	8.21	9.65	81.3	95.6	1	70.0-130			16.0		20
(T) Barium		*88.8*			*92.8*	*87.0*							
(T) Yttrium		*116*			*105*	*101*							

Method Blank (MB)

(MB) R3894282-1 02/26/23 17:29

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-226	0.0711	J	0.0674	0.0839
(T) Barium-133	*72.8*		*72.8*	

L1582340-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1582340-03 02/26/23 17:29 • (DUP) R3894282-5 02/26/23 17:29

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.658	0.340	0.205	0.0864	0.167	0.205	1	154	1.51	U	20	3
(T) Barium-133	*68.4*			*94.4*	*94.4*							

Laboratory Control Sample (LCS)

(LCS) R3894282-2 02/26/23 17:29

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.94	98.5	80.0-120	
(T) Barium-133			*77.5*		

L1582340-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1582340-01 02/26/23 17:29 • (MS) R3894282-3 02/26/23 17:29 • (MSD) R3894282-4 02/26/23 17:29

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	-0.00973	20.9	20.4	104	102	1	75.0-125			2.37		20
(T) Barium-133		*63.9*			*77.3*	*69.6*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

E093

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Pace Analytical
www.pacelabs.com

Owner Received Date: 2/1/2023

Results Requ By: 3/1/2023

Workorder: GB00278 **Workorder Name:** Vistra - Newton

Report To:	Subcontract To:
Christina Pierce Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical Services, LLC 1638 Roseytown Rd - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

L1583413

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226/228	LAB USE ONLY
1	APW07	GRAB	1/31/2023 11:38	GB00278-01	GW		X	-01
2	APW08	GRAB	1/31/2023 13:21	GB00278-02	GW		X	-02
3	APW09	GRAB	1/31/2023 15:29	GB00278-03	GW		X	-03
4	APW10	GRAB	1/31/2023 14:28	GB00278-04	GW		X	-04
5								
6								
7								
8								
9								
10								

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres.Correct/Check:	Y N
Correct bottles used:	Y N	NSA7 14.3+0=14.3	
Sufficient volume sent:	Y N		
RAD Screen <0.5 mR/hr:	Y N	12647 29603 70175743	

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1		2/4/23			Needs reported as 226, 228 and also combined 226/228
2		2/5/23 1035	2/8/23	0915	Include QC summary
3					

Cooler Temperature on Receipt ____ °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N

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

L1583413

Pace Analytical
www.pacelabs.com

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

(724)850-5600

INTER_LABORATORY WORK ORDER # GB00278
(To be complete by sending lab)

Sending Project No:	GB00278
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	2/3/2023
REQUESTED COMPLETION DATE:	3/1/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	GREENSBURG	External Client	VISTRA - NEWTON
State of Sample Origin	IL	QC Deliverable	**STD Report**

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of**	**Preservative**	**Quantity of**	**Unit Price**	**Amount**
Radium 226/228		1		4	$242.10	$968.40
					$0.00	$0.00
					$0.00	$0.00
					TOTAL	$968.40

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

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$968.40	$774.72	$193.68
* Custom Revenue Allocation		TOTAL	$774.72	$193.68

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

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

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

GB000278

VISTRA - NEWTON
NEWTON 1Q23

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

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: 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

ITEM #	SAMPLE ID	MATRIX CODE	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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_NPDES_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																						
2	A213	WT	G	2/1/23	1020		4	X	X	X		X											
3	A214	WT	G	1/31/23	1613		4	X	X	X		X											
4	A215	WT	G	1/31/23	1415		4	X	X	X		X											
5	APW02																						
6	APW03																						
7	APW04																						
8	APW05																						
9	APW06																						
10	APW07	WT	G	1/31/23	1138		3	X		X													
11	APW08	WT	G	1/31/23	1321		3	X		X													
12	APW09	WT	G	1/31/23	1529		3	X		X													
13	APW10	WT	G	1/31/23	1428		3	X		X													
14	G06D																						
15	G104																						
16	G104D																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-Q1-2023		2/1/23	1137		2/1/23	1140	
	Joseph R Reed	2/1/23	1547				U.S

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: Aaron Pemberton DATE Signed (MM/DD/YY): 01/31/23

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

Vera Wayne
2-1-23 1547

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

May 16, 2023

Terry Hanratty
Vistra - Newton
Newton Energy Center 6725 N. 500th St
Newton, IL 62448

Dear Terry Hanratty:

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 GC02836

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

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

ANALYTICAL RESULTS

Sample: GC02836-01 **Sampled:** 03/15/23 12:06
Name: APW02 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.11	pCi/L			1	0.539	04/26/23 22:00		904.0 903.0

Sample: GC02836-02 **Sampled:** 03/14/23 15:27
Name: APW03 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.0759 U	pCi/L			1	0.684	04/26/23 22:00		904.0 903.0

Sample: GC02836-03 **Sampled:** 03/14/23 14:14
Name: APW04 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.336 J	pCi/L			1	0.629	04/26/23 22:00		904.0 903.0

Sample: GC02836-04 **Sampled:** 03/14/23 16:38
Name: APW05 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.805	pCi/L			1	0.546	04/26/23 22:00		904.0 903.0

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

ANALYTICAL RESULTS

Sample: GC02836-05 **Sampled:** 03/14/23 17:34
Name: APW05S **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.07	pCi/L			1	0.593	04/26/23 22:00		904.0 903.0

Sample: GC02836-06 **Sampled:** 03/15/23 13:18
Name: APW06 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.26	pCi/L			1	0.57	04/26/23 22:00		904.0 903.0

Sample: GC02836-07 **Sampled:** 03/15/23 10:12
Name: APW11 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.23	pCi/L			1	0.781	04/26/23 22:00		904.0 903.0

Sample: GC02836-08 **Sampled:** 03/15/23 11:15
Name: APW12 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.3	pCi/L			1	0.58	04/26/23 22:00		904.0 903.0

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

ANALYTICAL RESULTS

Sample: GC02836-09 **Sampled:** 03/14/23 16:50
Name: APW13 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.557 J	pCi/L			1	0.633	04/26/23 22:00		904.0 903.0

Sample: GC02836-10 **Sampled:** 03/14/23 15:43
Name: APW14 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.27	pCi/L			1	0.602	04/26/23 22:00		904.0 903.0

Sample: GC02836-11 **Sampled:** 03/14/23 14:31
Name: APW15 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.62	pCi/L			1	0.706	04/20/23 13:26		904.0 903.0

Sample: GC02836-12 **Sampled:** 03/15/23 12:20
Name: APW16 **Received:** 03/15/23 16:53
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.74	pCi/L			1	0.838	04/20/23 13:26		904.0 903.0

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

ANALYTICAL RESULTS

Sample: GC02836-13
Name: APW17
Matrix: Ground Water - Grab

Sampled: 03/15/23 11:19
Received: 03/15/23 16:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.520 J	pCi/L			1	0.909	04/20/23 13:26		904.0 903.0

Sample: GC02836-14
Name: APW18
Matrix: Ground Water - Grab

Sampled: 03/15/23 10:24
Received: 03/15/23 16:53

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.748	pCi/L			1	0.739	04/20/23 13:26		904.0 903.0

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

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

Gail J Schindler

Certified by: Gail Schindler, Project Manager

Pace Analytical®

ANALYTICAL REPORT

April 27, 2023

Pace IR - Peoria, IL

Sample Delivery Group:	L1597151
Samples Received:	03/22/2023
Project Number:	GC02836
Description:	Vistra-Newton
Site:	001
Report To:	Gail Schindler 2231 W. Altorfer Drive Peoria, IL 61615

Entire Report Reviewed By:

[Preliminary Report]

Nancy McLaine
Project Manager

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

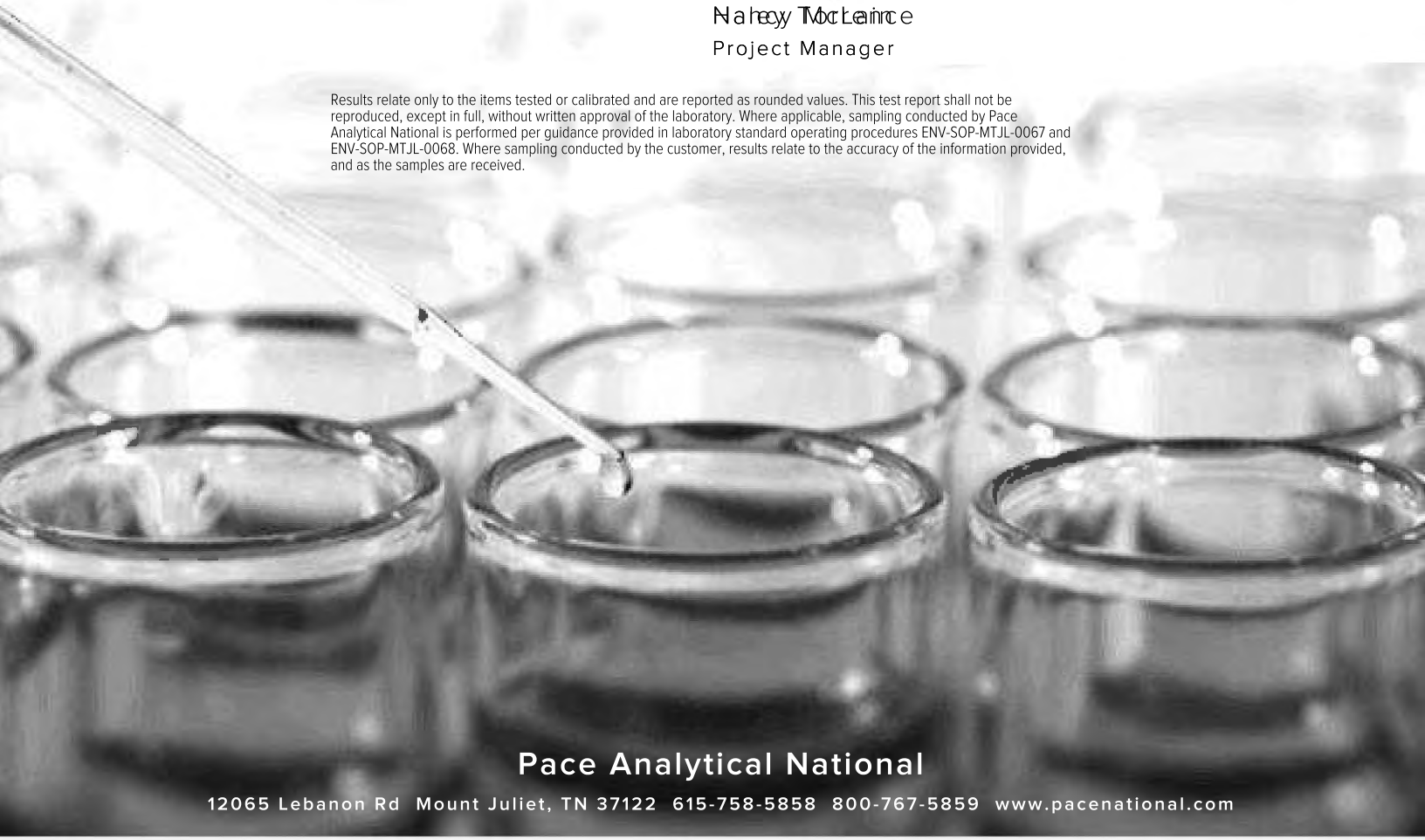


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SAMPLE SUMMARY

NEW_APW02 L1597151-01 Non-Potable Water

Collected by | Collected date/time 03/15/23 12:06 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW03 L1597151-02 Non-Potable Water

Collected by | Collected date/time 03/14/23 15:27 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW04 L1597151-03 Non-Potable Water

Collected by | Collected date/time 03/14/23 14:14 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW05 L1597151-04 Non-Potable Water

Collected by | Collected date/time 03/14/23 16:38 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW05S L1597151-05 Non-Potable Water

Collected by | Collected date/time 03/14/23 17:34 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW06 L1597151-06 Non-Potable Water

Collected by | Collected date/time 03/15/23 13:18 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

NEW_APW11 L1597151-07 Non-Potable Water

Collected by | Collected date/time 03/15/23 10:12 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW12 L1597151-08 Non-Potable Water

Collected by | Collected date/time 03/15/23 11:15 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW13 L1597151-09 Non-Potable Water

Collected by | Collected date/time 03/14/23 16:50 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW14 L1597151-10 Non-Potable Water

Collected by | Collected date/time 03/14/23 15:43 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2041628	1	04/24/23 22:30	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/26/23 22:00	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW15 L1597151-11 Non-Potable Water

Collected by | Collected date/time 03/14/23 14:31 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2042407	1	04/17/23 18:04	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW16 L1597151-12 Non-Potable Water

Collected by | Collected date/time 03/15/23 12:20 | Received date/time 03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2042407	1	04/17/23 18:04	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

NEW_APW17 L1597151-13 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		03/15/23 11:19	03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2042407	1	04/17/23 18:04	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

NEW_APW18 L1597151-14 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		03/15/23 10:24	03/22/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2042407	1	04/17/23 18:04	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2030892	1	04/12/23 12:09	04/20/23 13:26	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2030892	1	04/12/23 12:09	04/13/23 19:24	RGT	Mt. Juliet, TN

CASE NARRATIVE

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

[Preliminary Report]

Nancy McLaine
Project Manager

NEW_APW02 SAMPLE RESULTS - 01

Collected date/time: 03/15/23 12:06 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.909		0.268	0.481	04/26/2023 22:00	WG2041628
(T) Barium	*82.3*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*104*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.11		0.334	0.539	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.203	J	0.200	0.243	04/13/2023 19:24	WG2030892
(T) Barium-133	*88.5*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW03 SAMPLE RESULTS - 02

Collected date/time: 03/14/23 15:27 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0142	U	0.342	0.641	04/26/2023 22:00	WG2041628
(T) Barium	*88.9*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*92.0*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0759	U	0.372	0.684	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0759	U	0.147	0.239	04/13/2023 19:24	WG2030892
(T) Barium-133	*91.1*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW04 SAMPLE RESULTS - 03

Collected date/time: 03/14/23 14:14 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.336	J	0.307	0.567	04/26/2023 22:00	WG2041628
(T) Barium	*86.5*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*113*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.336	J	0.327	0.629	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	-0.0151	U	0.114	0.273	04/13/2023 19:24	WG2030892
(T) Barium-133	*83.9*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW05 SAMPLE RESULTS - 04

Collected date/time: 03/14/23 16:38 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.436		0.238	0.435	04/26/2023 22:00	WG2041628
(T) Barium	*99.9*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*110*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.805		0.372	0.546	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.369		0.286	0.330	04/13/2023 19:24	WG2030892
(T) Barium-133	*85.2*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW05S SAMPLE RESULTS - 05

Collected date/time: 03/14/23 17:34 L1597151

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.709		0.261	0.468	04/26/2023 22:00	WG2041628
(T) Barium	*85.4*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*99.4*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.07		0.401	0.593	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.364		0.304	0.364	04/13/2023 19:24	WG2030892
(T) Barium-133	*88.6*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW06 SAMPLE RESULTS - 06

Collected date/time: 03/15/23 13:18 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.763		0.278	0.500	04/26/2023 22:00	WG2041628
(T) Barium	*93.4*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*107*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.26		0.412	0.570	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.498		0.304	0.274	04/13/2023 19:24	WG2030892
(T) Barium-133	*90.7*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW11 SAMPLE RESULTS - 07 L1597151

Collected date/time: 03/15/23 10:12

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.328	U	0.385	0.719	04/26/2023 22:00	WG2041628
(T) Barium	*64.1*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*107*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.23		0.559	0.781	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.903		0.405	0.304	04/13/2023 19:24	WG2030892
(T) Barium-133	*89.8*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW12 SAMPLE RESULTS - 08

Collected date/time: 03/15/23 11:15 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.04		0.284	0.499	04/26/2023 22:00	WG2041628
(T) Barium	*82.2*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*96.5*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.30		0.371	0.580	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.256	J	0.238	0.296	04/13/2023 19:24	WG2030892
(T) Barium-133	*92.0*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW13 SAMPLE RESULTS - 09

Collected date/time: 03/14/23 16:50 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.431	J	0.301	0.553	04/26/2023 22:00	WG2041628
(T) Barium	*89.6*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*104*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.557	J	0.362	0.633	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.126	J	0.201	0.308	04/13/2023 19:24	WG2030892
(T) Barium-133	*91.4*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW14 SAMPLE RESULTS - 10

Collected date/time: 03/14/23 15:43 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.982		0.264	0.464	04/26/2023 22:00	WG2041628
(T) Barium	*86.9*			*30.0-143*	*04/26/2023 22:00*	WG2041628
(T) Yttrium	*107*			*30.0-136*	*04/26/2023 22:00*	WG2041628

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.27		0.393	0.602	04/26/2023 22:00	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.288	J	0.291	0.384	04/13/2023 19:24	WG2030892
(T) Barium-133	*84.8*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW15 SAMPLE RESULTS - 11

Collected date/time: 03/14/23 14:31 L1597151

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.50		0.390	0.682	04/20/2023 13:26	WG2042407
(T) Barium	*99.5*			*30.0-143*	*04/20/2023 13:26*	WG2042407
(T) Yttrium	*106*			*30.0-136*	*04/20/2023 13:26*	WG2042407

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.62		0.542	0.706	04/20/2023 13:26	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.12		0.376	0.183	04/13/2023 19:24	WG2030892
(T) Barium-133	*89.8*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW16 SAMPLE RESULTS - 12

Collected date/time: 03/15/23 12:20 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.920		0.440	0.791	04/20/2023 13:26	WG2042407
(T) Barium	*99.8*			*30.0-143*	*04/20/2023 13:26*	WG2042407
(T) Yttrium	*88.9*			*30.0-136*	*04/20/2023 13:26*	WG2042407

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.74		0.569	0.838	04/20/2023 13:26	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.823		0.360	0.278	04/13/2023 19:24	WG2030892
(T) Barium-133	*88.8*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW17 SAMPLE RESULTS - 13

Collected date/time: 03/15/23 11:19 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.707	U	0.456	0.862	04/20/2023 13:26	WG2042407
(T) Barium	*92.9*			*30.0-143*	*04/20/2023 13:26*	WG2042407
(T) Yttrium	*110*			*30.0-136*	*04/20/2023 13:26*	WG2042407

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.520	J	0.547	0.909	04/20/2023 13:26	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.520		0.303	0.287	04/13/2023 19:24	WG2030892
(T) Barium-133	*92.1*			*30.0-143*	*04/13/2023 19:24*	WG2030892

NEW_APW18 SAMPLE RESULTS - 14

Collected date/time: 03/15/23 10:24 L1597151

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.0449	U	0.350	0.650	04/20/2023 13:26	WG2042407
(T) Barium	*99.1*			*30.0-143*	*04/20/2023 13:26*	WG2042407
(T) Yttrium	*108*			*30.0-136*	*04/20/2023 13:26*	WG2042407

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.748		0.501	0.739	04/20/2023 13:26	WG2030892

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.703		0.358	0.351	04/13/2023 19:24	WG2030892
(T) Barium-133	*96.4*			*30.0-143*	*04/13/2023 19:24*	WG2030892

QUALITY CONTROL SUMMARY

L1597151-01 02 03 04 05 06 07 08 09 10

Method Blank (MB)

(MB) R3918321-1 04/26/23 22:00

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.132	U	0.151	0.285
(T) Barium	*103*		*103*	
(T) Yttrium	*90.5*		*90.5*	

L1596613-36 Original Sample (OS) • Duplicate (DUP)

(OS) L1596613-36 04/26/23 22:00 • (DUP) R3918321-5 04/26/23 22:00

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.32	0.327	0.583	0.660	0.335	0.583	1	66.8	1.41		20	3
(T) Barium	*95.1*			*102*	*102*							
(T) Yttrium	*92.7*			*113*	*113*							

Laboratory Control Sample (LCS)

(LCS) R3918321-2 04/26/23 22:00

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.57	91.4	80.0-120	
(T) Barium			*103*		
(T) Yttrium			*100*		

L1597101-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597101-05 04/26/23 22:00 • (MS) R3918321-3 04/26/23 22:00 • (MSD) R3918321-4 04/26/23 22:00

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.872	16.6	15.6	94.2	88.3	1	70.0-130			6.14		20
(T) Barium		*94.1*			*104*	*99.8*							
(T) Yttrium		*106*			*103*	*96.4*							

Method Blank (MB)

(MB) R3916000-1 04/20/23 13:26

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.0293	U	0.145	0.271
(T) Barium	*93.0*		*93.0*	
(T) Yttrium	*112*		*112*	

L1604426-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1604426-04 04/20/23 13:26 • (DUP) R3916000-5 04/20/23 13:26

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.14	0.390	0.690	0.987	0.354	0.690	1	14.1	0.285		20	3
(T) Barium	*76.2*			*98.2*	*98.2*							
(T) Yttrium	*113*			*112*	*112*							

Laboratory Control Sample (LCS)

(LCS) R3916000-2 04/20/23 13:26

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.82	96.5	80.0-120	
(T) Barium			*95.9*		
(T) Yttrium			*108*		

L1597095-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597095-01 04/20/23 13:26 • (MS) R3916000-3 04/20/23 13:26 • (MSD) R3916000-4 04/20/23 13:26

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.379	9.90	11.2	95.2	108	1	70.0-130			12.1		20
(T) Barium		*102*			*96.8*	*97.2*							
(T) Yttrium		*112*			*98.5*	*119*							

Method Blank (MB)

(MB) R3914150-1 04/13/23 19:24

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	-0.0101	U	0.0295	0.0703
(T) Barium-133	*95.4*		*95.4*	

L1597101-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1597101-01 04/13/23 19:24 • (DUP) R3914150-5 04/13/23 19:24

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.227	0.281	0.395	-0.0426	0.187	0.395	1	200	0.799	U	20	3
(T) Barium-133	*80.7*			*78.5*	*78.5*							

Laboratory Control Sample (LCS)

(LCS) R3914150-2 04/13/23 19:24

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.09	102	80.0-120	
(T) Barium-133			*91.7*		

L1597151-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1597151-08 04/13/23 19:24 • (MS) R3914150-3 04/13/23 19:24 • (MSD) R3914150-4 04/13/23 19:24

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.256	18.5	17.7	91.4	87.3	1	75.0-125			4.52		20
(T) Barium-133		*92.0*			*87.1*	*87.1*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

[redacted] Custody

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Pace Analytical
www.pacelabs.com

Owner Received Date: 3/15/2023
Results Requ
By:

Workorder: GC02836 Workorder Name: VISTRA - NEWTON

Pace Analytical
www.pacelabs.com

Report To:	Subcontract To:	Requested Analysis
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					Radium 226	Radium 228										LAB USE ONLY
1	NEW_APW02	GRAB	3/15/2023 12:06	GC02836-01	GW						X	X										-01
2	NEW_APW03	GRAB	3/14/2023 15:27	GC02836-02	GW						X	X										-02
3	NEW_APW04	GRAB	3/14/2023 14:14	GC02836-03	GW						X	X										-03
4	NEW_APW05	GRAB	3/14/2023 16:38	GC02836-04	GW						X	X										-04
5	NEW_APW05S	GRAB	3/14/2023 17:34	GC02836-05	GW						X	X										-05
6	NEW_APW06	GRAB	3/15/2023 13:18	GC02836-06	GW						X	X										-06
7	NEW_APW11	GRAB	3/15/2023 10:12	GC02836-07	GW						X	X										-07
8	NEW_APW12	GRAB	3/15/2023 11:15	GC02836-08	GW						X	X										-08
9	NEW_APW13	GRAB	3/14/2023 16:50	GC02836-09	GW						X	X										-09
10	NEW_APW14	GRAB	3/14/2023 15:43	GC02836-10	GW						X	X										-10

L597151
LAB USE ONLY

Transfers	3/14/2023 14:31	Date/Time	Reveived By	Date/Time	Comments
1	[redacted]	3/20/23 0749			Needs reported as 226, 228 and also combined 226/228
2					
3			Hanley Robotte (5)	3/22/23 1000	Include QC summary and edd

Cooler Temperature on Receipt _____ °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Sample Intact (Y) or N

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

Sample Receipt Checklist

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

Custody

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Pace Analytical
www.pacelabs.com

Owner Received Date: 3/15/2023
Results Requ By: 4/12/2023

Workorder: GC02836 **Workorder Name:** VISTRA - EDWARDS

Report To:	Subcontract To:
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	NEW_APW15	GRAB	3/14/2023 14:31	GC02836-11	GW		X	X	=11
2	NEW_APW16	GRAB	3/15/2023 12:20	GC02836-12	GW		X	X	-12
3	NEW_APW17	GRAB	3/15/2023 11:19	GC02836-13	GW		X	X	-13
4	NEW_APW18	GRAB	3/15/2023 10:24	GC02836-14	GW		X	X	-14
5									
6									
7									
8									
9									
10									

U597151

Transfers	3/14/2023 14:31	Date/Time	Reveived By	Date/Time	Comments
1	[illegible]	3/20/230749			Needs reported as 226, 228 and also combined 226/228
2					
3			Harley Rotstein (6)	3/22/23 1000	Include QC summary and edd

Cooler Temperature on Receipt _____ °C | Custody Seal Y or N | Received on Ice Y or N | Sample Intact Y or N

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

L1597151

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www.pacelabs.com

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

(724)850-5600

INTER_LABORATORY WORK ORDER # GC02836
(To be complete by sending lab)

Sending Project No:	GC02836
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	3/17/2023
REQUESTED COMPLETION DATE:	4/23/2023

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

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of**	**Preservative**	**Quantity of**	**Unit Price**	**Amount**
Radium 226		14		14	$121.05	$1,694.70
RadiUm 228		14		14	$121.05	$1,694.70
		1		1		$0.00
					TOTAL	$3,389.40

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

Receiving Reqion Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$3,389.40	$2,711.52	$677.88
* Custom Revenue Allocation		TOTAL	$2,711.52	$677.88

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

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

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

L1597151

Tracking Numbers	Temperature
1Z 647 296 03 7044 1088	12.8 ± 0 = 12.8 (NSA)
1Z 647 296 03 6845 3812	12.3 ± 0 = 12.3 (NSA)

GL02836

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
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

Requested Analysis Filtered (Y/N)

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 (use 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	NEW_257_501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW02	WT	G	3/15/23	1206		3	X		X									
2	NEW_APW03	WT	G	3/14/23	1527		3	X		X									
3	NEW_APW04	WT	G	3/14/23	1414		3	X		X									
4	NEW_APW05	WT	G	3/14/23	1638		3	X		X									
5	NEW_APW05#S	WT	G	3/14/23	1734		3	X		X									
6	NEW_APW06	WT	G	3/15/23	1318		3	X		X									
7	NEW_APW11	WT	G	3/15/23	1012		3	X		X									
8	NEW_APW12	WT	G	3/15/23	1115		3	X		X									
9	NEW_APW13	WT	G	3/14/23	1650		3	X		X									
10	NEW_APW14	WT	G	3/14/23	1543		3	X		X									
11	NEW_APW15	WT	G	3/14/23	1431		3	X		X									
12	NEW_APW16	WT	G	3/15/23	1220		3	X		X									
13	NEW_APW17	WT	G	3/15/23	1119		3	X		X									
14	NEW_APW18	WT	G	3/15/23	1024		3	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)
NEW-23Q1 Rev 1 "Part 2"		3/15/23	1653		3/15/23	1653	2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Haven Amberson
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 03/15/23

AHP 3/16/23

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

June 06, 2023

Terry Hanratty
Vistra - Newton
Newton Energy Center 6725 N. 500th St
Newton, IL 62448

Dear Terry Hanratty:

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 GD04461

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
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided

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Work Order GD04746

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
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided

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Work Order GD04839

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
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
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Work Order GD04919

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
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: GD04461-01
Name: APW03
Matrix: Ground Water - Grab

Sampled: 04/25/23 13:20
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.9	mg/L		04/26/23 20:03	1	1.0	04/26/23 20:03	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/26/23 20:03	1	0.250	04/26/23 20:03	CRD	EPA 300.0 REV 2.1
Sulfate	120	mg/L		04/26/23 20:21	25	25	04/26/23 20:21	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.94	Feet		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Oxidation Reduction Potential	141	mV		04/25/23 13:20	1	-500	04/25/23 13:20	FIELD	Field*
pH, Field Measured	7.01	pH Units		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Specific Conductance, Field Measured	925.0	umhos/cm		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Temperature, Field Measured	17.0	°C		04/25/23 13:20	1		04/25/23 13:20	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/25/23 13:20	1	0.00	04/25/23 13:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	390	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	740	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:27	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Barium	78	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Boron	370	ug/L		05/03/23 09:07	5	10	05/05/23 08:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Calcium	96	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:27	JMW	EPA 6020A
Chromium	7.2	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:27	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:27	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Magnesium	58	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:27	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:18	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Potassium	0.31	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:27	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GD04461-01
Name: APW03
Matrix: Ground Water - Grab

Sampled: 04/25/23 13:20
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Sodium	61	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:27	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:27	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:16	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04461-02
Name: APW04
Matrix: Ground Water - Grab

Sampled: 04/25/23 16:42
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	34	mg/L		04/26/23 20:57	10	10	04/26/23 20:57	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/26/23 20:39	1	0.250	04/26/23 20:39	CRD	EPA 300.0 REV 2.1
Sulfate	840	mg/L		04/26/23 21:51	100	100	04/26/23 21:51	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.1	Feet		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Dissolved oxygen, Field	0.93	mg/L		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Oxidation Reduction Potential	171	mV		04/25/23 16:42	1	-500	04/25/23 16:42	FIELD	Field*
pH, Field Measured	6.93	pH Units		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Specific Conductance, Field Measured	1830	umhos/cm		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Temperature, Field Measured	11.8	°C		04/25/23 16:42	1		04/25/23 16:42	FIELD	Field*
Turbidity, Field Measured	178	NTU		04/25/23 16:42	1	0.00	04/25/23 16:42	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	440	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1800	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:31	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Barium	22	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Boron	24	ug/L		05/03/23 09:07	5	10	05/05/23 08:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Calcium	210	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:31	JMW	EPA 6020A
Chromium	44	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:31	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:31	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Magnesium	170	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:21	JMW	EPA 6020A
Molybdenum	1.8	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Potassium	1.3	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:31	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GD04461-02
Name: APW04
Matrix: Ground Water - Grab

Sampled: 04/25/23 16:42
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Sodium	90	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:31	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:17	TJJ	EPA 6010B

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

ANALYTICAL RESULTS

Sample: GD04461-03
Name: APW16
Matrix: Ground Water - Grab

Sampled: 04/25/23 13:26
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	71	mg/L	Q4	04/26/23 23:03	10	10	04/26/23 23:03	CRD	EPA 300.0 REV 2.1
Fluoride	0.606	mg/L		04/26/23 22:09	1	0.250	04/26/23 22:09	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/26/23 22:09	1	1.0	04/26/23 22:09	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	40.15	Feet		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Oxidation Reduction Potential	-104	mV		04/25/23 13:26	1	-500	04/25/23 13:26	FIELD	Field*
pH, Field Measured	7.65	pH Units		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Specific Conductance, Field Measured	953.0	umhos/cm		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Temperature, Field Measured	14.0	°C		04/25/23 13:26	1		04/25/23 13:26	FIELD	Field*
Turbidity, Field Measured	0.210	NTU		04/25/23 13:26	1	0.00	04/25/23 13:26	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	560	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	800	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:34	JMW	EPA 6020A
Arsenic	21	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Barium	540	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Boron	130	ug/L		05/03/23 09:07	5	10	05/05/23 08:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Calcium	96	mg/L	Q4	05/03/23 09:07	5	0.20	05/04/23 09:34	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:34	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:34	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Magnesium	44	mg/L	Q4	05/03/23 09:07	5	0.10	05/04/23 09:34	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:24	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Potassium	1.8	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:34	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GD04461-03
Name: APW16
Matrix: Ground Water - Grab

Sampled: 04/25/23 13:26
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Sodium	140	mg/L	Q4	05/03/23 09:07	5	0.10	05/04/23 09:34	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:34	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:19	TJJ	EPA 6010B

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2231 W. Altorfer Drive
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(800)752-6651

ANALYTICAL RESULTS

Sample: GD04461-04
Name: APW17
Matrix: Ground Water - Grab

Sampled: 04/25/23 16:50
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	56	mg/L		04/26/23 23:40	10	10	04/26/23 23:40	CRD	EPA 300.0 REV 2.1
Fluoride	0.483	mg/L		04/26/23 23:22	1	0.250	04/26/23 23:22	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		04/26/23 23:40	10	10	04/26/23 23:40	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	41.09	Feet		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Oxidation Reduction Potential	-97.2	mV		04/25/23 16:50	1	-500	04/25/23 16:50	FIELD	Field*
pH, Field Measured	7.62	pH Units		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Specific Conductance, Field Measured	1162	umhos/cm		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Temperature, Field Measured	15.2	°C		04/25/23 16:50	1		04/25/23 16:50	FIELD	Field*
Turbidity, Field Measured	3.82	NTU		04/25/23 16:50	1	0.00	04/25/23 16:50	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	450	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	700	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:38	JMW	EPA 6020A
Arsenic	20	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Barium	550	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Boron	83	ug/L		05/03/23 09:07	5	10	05/05/23 08:27	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Calcium	110	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:38	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:38	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:38	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Magnesium	47	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:38	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:27	JMW	EPA 6020A
Molybdenum	5.3	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Potassium	1.6	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:38	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04461-04
Name: APW17
Matrix: Ground Water - Grab

Sampled: 04/25/23 16:50
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Sodium	93	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:38	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:38	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:22	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04461-05
Name: APW18
Matrix: Ground Water - Grab

Sampled: 04/25/23 15:03
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	24	mg/L		04/27/23 00:16	10	10	04/27/23 00:16	CRD	EPA 300.0 REV 2.1
Fluoride	0.518	mg/L		04/26/23 23:58	1	0.250	04/26/23 23:58	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		04/27/23 00:16	10	10	04/27/23 00:16	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	51.63	Feet		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Oxidation Reduction Potential	-137	mV		04/25/23 15:03	1	-500	04/25/23 15:03	FIELD	Field*
pH, Field Measured	7.78	pH Units		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Specific Conductance, Field Measured	1012	umhos/cm		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Temperature, Field Measured	15.2	°C		04/25/23 15:03	1		04/25/23 15:03	FIELD	Field*
Turbidity, Field Measured	5.01	NTU		04/25/23 15:03	1	0.00	04/25/23 15:03	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	440	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/04/23 10:11	1	10	05/04/23 10:11	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	660	mg/L		04/28/23 14:40	1	26	04/28/23 16:47	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/03/23 09:07	5	3.0	05/04/23 09:42	JMW	EPA 6020A
Arsenic	2.7	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Barium	350	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Boron	100	ug/L		05/03/23 09:07	5	10	05/05/23 08:30	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Calcium	75	mg/L		05/03/23 09:07	5	0.20	05/04/23 09:42	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/03/23 09:07	5	4.0	05/04/23 09:42	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/03/23 09:07	5	2.0	05/04/23 09:42	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Magnesium	40	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:42	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/03/23 09:07	5	0.20	05/05/23 08:30	JMW	EPA 6020A
Molybdenum	2.9	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Potassium	2.6	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:42	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04461-05
Name: APW18
Matrix: Ground Water - Grab

Sampled: 04/25/23 15:03
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Sodium	110	mg/L		05/03/23 09:07	5	0.10	05/04/23 09:42	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/03/23 09:07	5	1.0	05/04/23 09:42	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/03/23 09:07	1	0.020	05/09/23 10:23	TJJ	EPA 6010B

Sample: GD04461-27
Name: XSG01
Matrix: Ground Water

Sampled: 04/24/23 17:16
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	5.34	Feet		04/24/23 17:16	1		04/24/23 17:16	FIELD	Field*

Sample: GD04461-28
Name: SG02
Matrix: Ground Water

Sampled: 04/24/23 14:44
Received: 04/26/23 14:08

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	2.11	Feet		04/24/23 14:44	1		04/24/23 14:44	FIELD	Field*

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ANALYTICAL RESULTS

Sample: GD04746-02
Name: APW05S
Matrix: Ground Water - Grab

Sampled: 04/26/23 17:40
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	200	mg/L		04/29/23 21:22	100	100	04/29/23 21:22	CRD	EPA 300.0 REV 2.1
Sulfate	2100	mg/L		04/27/23 21:31	250	250	04/27/23 21:31	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.46	Feet		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Dissolved oxygen, Field	3.5	mg/L		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Oxidation Reduction Potential	97.0	mV		04/26/23 17:40	1	-500	04/26/23 17:40	FIELD	Field*
pH, Field Measured	6.60	pH Units		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Specific Conductance, Field Measured	3930	umhos/cm		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Temperature, Field Measured	16.4	°C		04/26/23 17:40	1		04/26/23 17:40	FIELD	Field*
Turbidity, Field Measured	220	NTU		04/26/23 17:40	1	0.00	04/26/23 17:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	520	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Fluoride	0.365	mg/L		05/05/23 16:50	1	0.250	05/05/23 16:50	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	3800	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:20	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:33	JMW	EPA 6020A
Barium	35	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Boron	54	ug/L		05/04/23 09:03	5	10	05/09/23 07:20	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Calcium	390	mg/L	Q4	05/04/23 09:03	5	0.20	05/09/23 07:20	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:20	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:20	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Magnesium	300	mg/L	Q4	05/04/23 09:03	5	0.10	05/09/23 07:20	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:58	JMW	EPA 6020A
Molybdenum	1.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Potassium	1.8	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:20	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04746-02
Name: APW05S
Matrix: Ground Water - Grab

Sampled: 04/26/23 17:40
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Sodium	260	mg/L	Q4	05/04/23 09:03	5	0.10	05/09/23 07:20	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:20	JMW	EPA 6020A
Lithium	0.033	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:31	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04746-03
Name: APW06
Matrix: Ground Water - Grab

Sampled: 04/26/23 16:00
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	26	mg/L		04/27/23 22:07	10	10	04/27/23 22:07	CRD	EPA 300.0 REV 2.1
Fluoride	0.489	mg/L		04/27/23 21:49	1	0.250	04/27/23 21:49	CRD	EPA 300.0 REV 2.1
Sulfate	7.6	mg/L		04/27/23 21:49	1	1.0	04/27/23 21:49	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	19.33	Feet		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Dissolved oxygen, Field	11	mg/L		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Oxidation Reduction Potential	-128	mV		04/26/23 16:00	1	-500	04/26/23 16:00	FIELD	Field*
pH, Field Measured	7.35	pH Units		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Specific Conductance, Field Measured	796.0	umhos/cm		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Temperature, Field Measured	17.6	°C		04/26/23 16:00	1		04/26/23 16:00	FIELD	Field*
Turbidity, Field Measured	471	NTU		04/26/23 16:00	1	0.00	04/26/23 16:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	380	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	500	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:24	JMW	EPA 6020A
Arsenic	9.2	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:42	JMW	EPA 6020A
Barium	240	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Boron	87	ug/L		05/04/23 09:03	5	10	05/09/23 07:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Calcium	58	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:24	JMW	EPA 6020A
Chromium	7.9	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:24	JMW	EPA 6020A
Lead	1.7	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Magnesium	27	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:24	JMW	EPA 6020A
Molybdenum	7.7	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Potassium	1.5	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:24	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04746-03
Name: APW06
Matrix: Ground Water - Grab

Sampled: 04/26/23 16:00
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Sodium	120	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:24	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:24	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:34	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04746-04
Name: APW08
Matrix: Ground Water - Grab

Sampled: 04/26/23 12:11
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	58	mg/L		04/27/23 22:43	10	10	04/27/23 22:43	CRD	EPA 300.0 REV 2.1
Fluoride	0.404	mg/L		04/27/23 22:25	1	0.250	04/27/23 22:25	CRD	EPA 300.0 REV 2.1
Sulfate	48	mg/L		04/27/23 22:43	10	10	04/27/23 22:43	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	37.56	Feet		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Oxidation Reduction Potential	-118	mV		04/26/23 12:11	1	-500	04/26/23 12:11	FIELD	Field*
pH, Field Measured	7.52	pH Units		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Specific Conductance, Field Measured	1100	umhos/cm		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Temperature, Field Measured	14.2	°C		04/26/23 12:11	1		04/26/23 12:11	FIELD	Field*
Turbidity, Field Measured	17.7	NTU		04/26/23 12:11	1	0.00	04/26/23 12:11	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	640	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:27	JMW	EPA 6020A
Arsenic	26	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:45	JMW	EPA 6020A
Barium	470	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Boron	87	ug/L		05/04/23 09:03	5	10	05/09/23 07:27	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Calcium	110	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:27	JMW	EPA 6020A
Chromium	7.6	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:27	JMW	EPA 6020A
Cobalt	2.2	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:27	JMW	EPA 6020A
Lead	3.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Magnesium	45	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:27	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:27	JMW	EPA 6020A
Molybdenum	4.4	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Potassium	2.0	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:27	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04746-04
Name: APW08
Matrix: Ground Water - Grab

Sampled: 04/26/23 12:11
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Sodium	91	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:27	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:27	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:35	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04746-05
Name: APW11
Matrix: Ground Water - Grab

Sampled: 04/26/23 15:43
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	26	mg/L		04/27/23 23:19	5	5.0	04/27/23 23:19	CRD	EPA 300.0 REV 2.1
Fluoride	0.283	mg/L		04/27/23 23:01	1	0.250	04/27/23 23:01	CRD	EPA 300.0 REV 2.1
Sulfate	260	mg/L		04/27/23 23:37	50	50	04/27/23 23:37	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.27	Feet		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Dissolved oxygen, Field	0.64	mg/L		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Oxidation Reduction Potential	-17.8	mV		04/26/23 15:43	1	-500	04/26/23 15:43	FIELD	Field*
pH, Field Measured	7.15	pH Units		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Specific Conductance, Field Measured	1252	umhos/cm		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Temperature, Field Measured	15.5	°C		04/26/23 15:43	1		04/26/23 15:43	FIELD	Field*
Turbidity, Field Measured	446	NTU		04/26/23 15:43	1	0.00	04/26/23 15:43	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	350	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	920	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:31	JMW	EPA 6020A
Arsenic	4.4	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:48	JMW	EPA 6020A
Barium	43	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Boron	64	ug/L		05/04/23 09:03	5	10	05/09/23 07:31	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Calcium	120	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:31	JMW	EPA 6020A
Chromium	7.0	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:31	JMW	EPA 6020A
Cobalt	2.1	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:31	JMW	EPA 6020A
Lead	6.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Magnesium	57	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:31	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:31	JMW	EPA 6020A
Molybdenum	4.3	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Potassium	1.9	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:31	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04746-05
Name: APW11
Matrix: Ground Water - Grab

Sampled: 04/26/23 15:43
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Sodium	93	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:31	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:31	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:36	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04746-06
Name: APW12
Matrix: Ground Water - Grab

Sampled: 04/26/23 13:56
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	23	mg/L		04/28/23 00:13	5	5.0	04/28/23 00:13	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/28/23 00:13	1	0.250	04/28/23 00:13	CRD	EPA 300.0 REV 2.1
Sulfate	540	mg/L		04/29/23 21:58	100	100	04/29/23 21:58	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.56	Feet		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Dissolved oxygen, Field	0.98	mg/L		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Oxidation Reduction Potential	107	mV		04/26/23 13:56	1	-500	04/26/23 13:56	FIELD	Field*
pH, Field Measured	6.52	pH Units		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Specific Conductance, Field Measured	1831	umhos/cm		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Temperature, Field Measured	14.6	°C		04/26/23 13:56	1		04/26/23 13:56	FIELD	Field*
Turbidity, Field Measured	0.520	NTU		04/26/23 13:56	1	0.00	04/26/23 13:56	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	520	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1500	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:35	JMW	EPA 6020A
Arsenic	1.4	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:50	JMW	EPA 6020A
Barium	28	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Boron	440	ug/L		05/04/23 09:03	5	10	05/09/23 07:35	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Calcium	230	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:35	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:35	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:35	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Magnesium	110	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:35	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:35	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Potassium	0.94	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:35	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04746-06
Name: APW12
Matrix: Ground Water - Grab

Sampled: 04/26/23 13:56
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Sodium	120	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:35	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:35	JMW	EPA 6020A
Lithium	0.024	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:38	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04746-07
Name: APW15
Matrix: Ground Water - Grab

Sampled: 04/26/23 17:23
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	270	mg/L		04/29/23 22:34	50	50	04/29/23 22:34	CRD	EPA 300.0 REV 2.1
Fluoride	0.402	mg/L		04/28/23 01:27	1	0.250	04/28/23 01:27	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/28/23 01:27	1	1.0	04/28/23 01:27	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.43	Feet		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Dissolved oxygen, Field	0.32	mg/L		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Oxidation Reduction Potential	-126	mV		04/26/23 17:23	1	-500	04/26/23 17:23	FIELD	Field*
pH, Field Measured	7.25	pH Units		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Specific Conductance, Field Measured	1682	umhos/cm		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Temperature, Field Measured	15.3	°C		04/26/23 17:23	1		04/26/23 17:23	FIELD	Field*
Turbidity, Field Measured	51.6	NTU		04/26/23 17:23	1	0.00	04/26/23 17:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	590	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/05/23 09:44	1	10	05/05/23 09:44	HRF	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1100	mg/L		05/01/23 11:30	1	26	05/01/23 15:30	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/04/23 09:03	5	3.0	05/09/23 07:39	JMW	EPA 6020A
Arsenic	21	ug/L		05/04/23 09:03	5	1.0	05/10/23 07:53	JMW	EPA 6020A
Barium	530	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Boron	130	ug/L		05/04/23 09:03	5	10	05/09/23 07:39	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Calcium	91	mg/L		05/04/23 09:03	5	0.20	05/09/23 07:39	JMW	EPA 6020A
Chromium	6.4	ug/L		05/04/23 09:03	5	4.0	05/09/23 07:39	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/04/23 09:03	5	2.0	05/09/23 07:39	JMW	EPA 6020A
Lead	1.2	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Magnesium	38	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:39	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/04/23 09:03	5	0.20	05/09/23 07:39	JMW	EPA 6020A
Molybdenum	6.5	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Potassium	3.0	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:39	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04746-07
Name: APW15
Matrix: Ground Water - Grab

Sampled: 04/26/23 17:23
Received: 04/27/23 14:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Sodium	290	mg/L		05/04/23 09:03	5	0.10	05/09/23 07:39	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/04/23 09:03	5	1.0	05/09/23 07:39	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/04/23 09:03	1	0.020	05/09/23 10:39	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04839-03
Name: APW02
Matrix: Ground Water - Grab

Sampled: 04/27/23 12:17
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	110	mg/L		04/28/23 19:45	25	25	04/28/23 19:45	CRD	EPA 300.0 REV 2.1
Sulfate	3100	mg/L		04/28/23 20:03	500	500	04/28/23 20:03	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	3.72	Feet		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Oxidation Reduction Potential	80.8	mV		04/27/23 12:17	1	-500	04/27/23 12:17	FIELD	Field*
pH, Field Measured	6.71	pH Units		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Specific Conductance, Field Measured	5217	umhos/cm		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Temperature, Field Measured	15.6	°C		04/27/23 12:17	1		04/27/23 12:17	FIELD	Field*
Turbidity, Field Measured	25.0	NTU		04/27/23 12:17	1	0.00	04/27/23 12:17	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	640	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/05/23 16:47	1	0.250	05/05/23 16:47	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	5400	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:38	JMW	EPA 6020A
Arsenic	1.4	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:18	JMW	EPA 6020A
Barium	24	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Boron	120	ug/L		05/08/23 09:07	5	10	05/09/23 09:54	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:38	JMW	EPA 6020A
Calcium	460	mg/L		05/08/23 09:07	5	0.20	05/09/23 09:54	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 09:54	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 09:54	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Magnesium	430	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:54	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:38	JMW	EPA 6020A
Molybdenum	1.6	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:38	JMW	EPA 6020A
Potassium	5.8	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:54	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04839-03
Name: APW02
Matrix: Ground Water - Grab

Sampled: 04/27/23 12:17
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Sodium	360	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:54	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:54	JMW	EPA 6020A
Lithium	0.098	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:47	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04839-04
Name: APW05
Matrix: Ground Water - Grab

Sampled: 04/27/23 12:40
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L	Q4	04/28/23 17:02	10	10	04/28/23 17:02	CRD	EPA 300.0 REV 2.1
Fluoride	0.498	mg/L		04/28/23 16:08	1	0.250	04/28/23 16:08	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		04/28/23 16:08	1	1.0	04/28/23 16:08	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.01	Feet		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Dissolved oxygen, Field	18	mg/L		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Oxidation Reduction Potential	-124	mV		04/27/23 12:40	1	-500	04/27/23 12:40	FIELD	Field*
pH, Field Measured	7.10	pH Units		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Specific Conductance, Field Measured	819.0	umhos/cm		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Temperature, Field Measured	14.5	°C		04/27/23 12:40	1		04/27/23 12:40	FIELD	Field*
Turbidity, Field Measured	40.1	NTU		04/27/23 12:40	1	0.00	04/27/23 12:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	480	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	560	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:42	JMW	EPA 6020A
Arsenic	30	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:21	JMW	EPA 6020A
Barium	250	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:42	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Boron	92	ug/L		05/08/23 09:07	5	10	05/09/23 09:58	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:42	JMW	EPA 6020A
Calcium	49	mg/L		05/08/23 09:07	5	0.20	05/09/23 09:58	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 09:58	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 09:58	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Magnesium	26	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:58	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:42	JMW	EPA 6020A
Molybdenum	9.1	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:42	JMW	EPA 6020A
Potassium	1.4	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:58	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04839-04
Name: APW05
Matrix: Ground Water - Grab

Sampled: 04/27/23 12:40
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Sodium	130	mg/L		05/08/23 09:07	5	0.10	05/09/23 09:58	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 09:58	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:48	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04839-05
Name: APW07
Matrix: Ground Water - Grab

Sampled: 04/27/23 10:35
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	63	mg/L		04/28/23 17:38	10	10	04/28/23 17:38	CRD	EPA 300.0 REV 2.1
Fluoride	0.409	mg/L		04/28/23 17:20	1	0.250	04/28/23 17:20	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L		04/28/23 17:38	10	10	04/28/23 17:38	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	46.59	Feet		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Oxidation Reduction Potential	-116	mV		04/27/23 10:35	1	-500	04/27/23 10:35	FIELD	Field*
pH, Field Measured	7.39	pH Units		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Specific Conductance, Field Measured	1051	umhos/cm		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Temperature, Field Measured	14.5	°C		04/27/23 10:35	1		04/27/23 10:35	FIELD	Field*
Turbidity, Field Measured	621	NTU		04/27/23 10:35	1	0.00	04/27/23 10:35	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	500	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	590	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:46	JMW	EPA 6020A
Arsenic	18	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:24	JMW	EPA 6020A
Barium	510	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:46	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Boron	85	ug/L		05/08/23 09:07	5	10	05/09/23 10:02	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:46	JMW	EPA 6020A
Calcium	100	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:02	JMW	EPA 6020A
Chromium	17	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:02	JMW	EPA 6020A
Cobalt	3.6	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:02	JMW	EPA 6020A
Lead	5.5	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Magnesium	40	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:02	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:46	JMW	EPA 6020A
Molybdenum	3.4	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:46	JMW	EPA 6020A
Potassium	2.5	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:02	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04839-05
Name: APW07
Matrix: Ground Water - Grab

Sampled: 04/27/23 10:35
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Sodium	93	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:02	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:02	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:49	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04839-06
Name: APW09
Matrix: Ground Water - Grab

Sampled: 04/27/23 14:05
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	130	mg/L		04/28/23 19:09	25	25	04/28/23 19:09	CRD	EPA 300.0 REV 2.1
Fluoride	0.482	mg/L		04/28/23 17:57	1	0.250	04/28/23 17:57	CRD	EPA 300.0 REV 2.1
Sulfate	9.4	mg/L		04/28/23 18:51	5	5.0	04/28/23 18:51	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.56	Feet		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Dissolved oxygen, Field	0.47	mg/L		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Oxidation Reduction Potential	-137	mV		04/27/23 14:05	1	-500	04/27/23 14:05	FIELD	Field*
pH, Field Measured	7.53	pH Units		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Specific Conductance, Field Measured	1356	umhos/cm		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Temperature, Field Measured	16.5	°C		04/27/23 14:05	1		04/27/23 14:05	FIELD	Field*
Turbidity, Field Measured	117	NTU		04/27/23 14:05	1	0.00	04/27/23 14:05	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	600	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	840	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 12:50	JMW	EPA 6020A
Arsenic	29	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:27	JMW	EPA 6020A
Barium	430	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:50	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Boron	99	ug/L		05/08/23 09:07	5	10	05/09/23 10:06	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:50	JMW	EPA 6020A
Calcium	76	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:06	JMW	EPA 6020A
Chromium	4.2	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:06	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:06	JMW	EPA 6020A
Lead	1.3	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Magnesium	38	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:06	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 12:50	JMW	EPA 6020A
Molybdenum	3.9	ug/L		05/08/23 09:07	5	1.0	05/09/23 12:50	JMW	EPA 6020A
Potassium	1.7	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:06	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04839-06
Name: APW09
Matrix: Ground Water - Grab

Sampled: 04/27/23 14:05
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Sodium	190	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:06	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:06	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:50	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04839-07
Name: APW10
Matrix: Ground Water - Grab

Sampled: 04/27/23 15:47
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L		04/29/23 13:25	10	10	04/29/23 13:25	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/29/23 13:07	1	0.250	04/29/23 13:07	CRD	EPA 300.0 REV 2.1
Sulfate	410	mg/L		04/29/23 13:43	100	100	04/29/23 13:43	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	17.53	Feet		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Dissolved oxygen, Field	3.4	mg/L		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Oxidation Reduction Potential	77.5	mV		04/27/23 15:47	1	-500	04/27/23 15:47	FIELD	Field*
pH, Field Measured	7.36	pH Units		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Specific Conductance, Field Measured	1461	umhos/cm		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Temperature, Field Measured	15.1	°C		04/27/23 15:47	1		04/27/23 15:47	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/27/23 15:47	1	0.00	04/27/23 15:47	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	420	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1100	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 13:09	JMW	EPA 6020A
Arsenic	7.8	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:30	JMW	EPA 6020A
Barium	26	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:09	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Boron	77	ug/L		05/08/23 09:07	5	10	05/09/23 10:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:09	JMW	EPA 6020A
Calcium	140	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Magnesium	68	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 13:09	JMW	EPA 6020A
Molybdenum	6.5	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:09	JMW	EPA 6020A
Potassium	1.5	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:10	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04839-07
Name: APW10
Matrix: Ground Water - Grab

Sampled: 04/27/23 15:47
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Sodium	120	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:10	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:10	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:52	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04839-08
Name: APW13
Matrix: Ground Water - Grab

Sampled: 04/27/23 17:16
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	51	mg/L		04/28/23 20:39	10	10	04/28/23 20:39	CRD	EPA 300.0 REV 2.1
Fluoride	0.394	mg/L		04/28/23 20:21	1	0.250	04/28/23 20:21	CRD	EPA 300.0 REV 2.1
Sulfate	250	mg/L		04/28/23 20:57	100	100	04/28/23 20:57	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	32.05	Feet		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Oxidation Reduction Potential	-25.3	mV		04/27/23 17:16	1	-500	04/27/23 17:16	FIELD	Field*
pH, Field Measured	7.26	pH Units		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Specific Conductance, Field Measured	1360	umhos/cm		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Temperature, Field Measured	14.3	°C		04/27/23 17:16	1		04/27/23 17:16	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/27/23 17:16	1	0.00	04/27/23 17:16	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/08/23 13:35	1	10	05/08/23 13:35	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	940	mg/L		05/02/23 12:44	1	26	05/03/23 11:06	HRF	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 13:13	JMW	EPA 6020A
Arsenic	4.0	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:33	JMW	EPA 6020A
Barium	50	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Boron	110	ug/L		05/08/23 09:07	5	10	05/09/23 10:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:13	JMW	EPA 6020A
Calcium	120	mg/L		05/08/23 09:07	5	0.20	05/09/23 10:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 10:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 10:13	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Magnesium	61	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 13:13	JMW	EPA 6020A
Molybdenum	6.7	ug/L		05/08/23 09:07	5	1.0	05/09/23 13:13	JMW	EPA 6020A
Potassium	1.8	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:13	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04839-08
Name: APW13
Matrix: Ground Water - Grab

Sampled: 04/27/23 17:16
Received: 04/28/23 12:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Sodium	120	mg/L		05/08/23 09:07	5	0.10	05/09/23 10:13	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 10:13	JMW	EPA 6020A
Lithium	0.021	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:53	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04919-03
Name: APW14
Matrix: Ground Water - Grab

Sampled: 04/28/23 11:29
Received: 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L		04/29/23 18:39	10	10	04/29/23 18:39	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/29/23 18:21	1	0.250	04/29/23 18:21	CRD	EPA 300.0 REV 2.1
Sulfate	380	mg/L		04/29/23 18:57	50	50	04/29/23 18:57	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.72	Feet		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		04/28/23 11:29	1	-500	04/28/23 11:29	FIELD	Field*
pH, Field Measured	7.34	pH Units		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Temperature, Field Measured	14.8	°C		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Turbidity, Field Measured	8.81	NTU		04/28/23 11:29	1	0.00	04/28/23 11:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	460	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	980	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 14:10	JMW	EPA 6020A
Arsenic	5.5	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:51	JMW	EPA 6020A
Barium	65	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Boron	100	ug/L		05/08/23 09:07	5	10	05/09/23 14:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Calcium	130	mg/L		05/08/23 09:07	5	0.20	05/09/23 14:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 14:10	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 14:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Magnesium	66	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 14:10	JMW	EPA 6020A
Molybdenum	4.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Potassium	1.6	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:10	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04919-03
Name: APW14
Matrix: Ground Water - Grab

Sampled: 04/28/23 11:29
Received: 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Sodium	130	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:10	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:10	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 10:54	TJJ	EPA 6010B

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ANALYTICAL RESULTS

Sample: GD04919-04
Name: APW14 DUP
Matrix: Ground Water - Grab

Sampled: 04/28/23 11:29
Received: 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	48	mg/L	Q4	04/29/23 20:45	10	10	04/29/23 20:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		04/29/23 19:15	1	0.250	04/29/23 19:15	CRD	EPA 300.0 REV 2.1
Sulfate	370	mg/L	Q4	04/29/23 21:03	50	50	04/29/23 21:03	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.72	Feet		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		04/28/23 11:29	1	-500	04/28/23 11:29	FIELD	Field*
pH, Field Measured	7.34	pH Units		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Temperature, Field Measured	14.8	°C		04/28/23 11:29	1		04/28/23 11:29	FIELD	Field*
Turbidity, Field Measured	8.81	NTU		04/28/23 11:29	1	0.00	04/28/23 11:29	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	450	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/09/23 10:18	1	10	05/09/23 10:18	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1000	mg/L		05/03/23 12:09	1	26	05/03/23 15:21	CPS	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/23 09:07	5	3.0	05/09/23 14:13	JMW	EPA 6020A
Arsenic	5.6	ug/L		05/08/23 09:07	5	1.0	05/10/23 09:54	JMW	EPA 6020A
Barium	64	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Boron	100	ug/L		05/08/23 09:07	5	10	05/09/23 14:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Calcium	130	mg/L		05/08/23 09:07	5	0.20	05/09/23 14:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		05/08/23 09:07	5	4.0	05/09/23 14:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/23 09:07	5	2.0	05/09/23 14:13	JMW	EPA 6020A
Lead	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Magnesium	65	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		05/08/23 09:07	5	0.20	05/09/23 14:13	JMW	EPA 6020A
Molybdenum	3.9	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Potassium	1.6	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:13	JMW	EPA 6020A

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ANALYTICAL RESULTS

Sample: GD04919-04
Name: APW14 DUP
Matrix: Ground Water - Grab

Sampled: 04/28/23 11:29
Received: 04/28/23 16:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Selenium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Sodium	130	mg/L		05/08/23 09:07	5	0.10	05/09/23 14:13	JMW	EPA 6020A
Thallium	< 1.0	ug/L		05/08/23 09:07	5	1.0	05/09/23 14:13	JMW	EPA 6020A
Lithium	< 0.020	mg/L		05/08/23 09:07	1	0.020	05/09/23 11:10	TJJ	EPA 6010B

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B331846 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B331846-MS2)	**Sample: GD04461-03**			Prepared & Analyzed: 04/26/23					
Sulfate	2.25	mg/L		1.500	0.650	107	80-120		
Fluoride	2.19	mg/L		1.500	0.606	106	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	71	NR	80-120		
Matrix Spike Dup (B331846-MSD2)	**Sample: GD04461-03**			Prepared & Analyzed: 04/26/23					
Fluoride	2.18	mg/L		1.500	0.606	105	80-120	0.2	20
Chloride	1.0E9	mg/L	Q4	1.500	71	NR	80-120	0	20
Sulfate	2.25	mg/L		1.500	0.650	106	80-120	0.08	20
Batch B331995 - No Prep - SM 2540C									
Blank (B331995-BLK1)				Prepared & Analyzed: 04/28/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B331995-BS1)				Prepared & Analyzed: 04/28/23					
Solids - total dissolved solids (TDS)	963	mg/L		1000		96	84.9-109		
Duplicate (B331995-DUP1)	**Sample: GD04461-03**			Prepared & Analyzed: 04/28/23					
Solids - total dissolved solids (TDS)	795	mg/L			795			0	5
Batch B332031 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B332031-MS1)	**Sample: GD04839-04**			Prepared & Analyzed: 04/28/23					
Sulfate	2.58	mg/L		1.500	0.975	107	80-120		
Fluoride	2.01	mg/L		1.500	0.498	101	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	46	NR	80-120		
Matrix Spike Dup (B332031-MSD1)	**Sample: GD04839-04**			Prepared & Analyzed: 04/28/23					
Fluoride	2.02	mg/L		1.500	0.498	101	80-120	0.6	20
Sulfate	2.58	mg/L		1.500	0.975	107	80-120	0.1	20
Chloride	1.0E9	mg/L	Q4	1.500	46	NR	80-120	0	20
Batch B332081 - No Prep - SM 2540C									
Blank (B332081-BLK1)				Prepared & Analyzed: 05/01/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B332081-BS1)				Prepared & Analyzed: 05/01/23					
Solids - total dissolved solids (TDS)	947	mg/L		1000		95	84.9-109		
Duplicate (B332081-DUP2)	**Sample: GD04746-02**			Prepared & Analyzed: 05/01/23					
Solids - total dissolved solids (TDS)	3720	mg/L			3800			2	5
Batch B332085 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B332085-MS1)	**Sample: GD04919-04**			Prepared & Analyzed: 04/29/23					
Sulfate	1.00E9	mg/L	Q4	1.500	370	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	48	NR	80-120		
Fluoride	1.70	mg/L		1.500	0.247	97	80-120		
Matrix Spike Dup (B332085-MSD1)	**Sample: GD04919-04**			Prepared & Analyzed: 04/29/23					
Fluoride	1.73	mg/L		1.500	0.247	99	80-120	2	20
Chloride	1.0E9	mg/L	Q4	1.500	48	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	370	NR	80-120	0	20
Batch B332218 - No Prep - SM 2540C									

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B332218-BLK1)				Prepared: 05/02/23 Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B332218-BS1)				Prepared: 05/02/23 Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
Batch B332309 - SW 3015 - EPA 6010B									
Blank (B332309-BLK1)				Prepared: 05/03/23 Analyzed: 05/09/23					
Lithium	< 0.020	mg/L							
LCS (B332309-BS1)				Prepared: 05/03/23 Analyzed: 05/09/23					
Lithium	0.565	mg/L		0.5556		102	80-120		
Matrix Spike (B332309-MS1)	**Sample: GD04461-03**			Prepared: 05/03/23 Analyzed: 05/09/23					
Lithium	0.561	mg/L		0.5556	ND	101	75-125		
Matrix Spike Dup (B332309-MSD1)	**Sample: GD04461-03**			Prepared: 05/03/23 Analyzed: 05/09/23					
Lithium	0.543	mg/L		0.5556	ND	98	75-125	3	20
Batch B332309 - SW 3015 - EPA 6020A									
Blank (B332309-BLK1)				Prepared: 05/03/23 Analyzed: 05/04/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B332309-BS1)				Prepared: 05/03/23 Analyzed: 05/04/23					
Antimony	539	ug/L		555.6		97	80-120		
Arsenic	538	ug/L		555.6		97	80-120		
Barium	540	ug/L		555.6		97	80-120		
Beryllium	557	ug/L		555.6		100	80-120		
Boron	568	ug/L		555.6		102	80-120		
Cadmium	529	ug/L		555.6		95	80-120		
Calcium	5.40	mg/L		5.556		97	80-120		
Chromium	582	ug/L		555.6		105	80-120		
Cobalt	576	ug/L		555.6		104	80-120		
Lead	557	ug/L		555.6		100	80-120		
Magnesium	5.64	mg/L		5.556		102	80-120		
Mercury	55.7	ug/L		55.56		100	80-120		
Molybdenum	527	ug/L		555.6		95	80-120		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B332309-BS1)				Prepared: 05/03/23 Analyzed: 05/04/23					
Potassium	5.54	mg/L		5.556		100	80-120		
Selenium	549	ug/L		555.6		99	80-120		
Sodium	5.54	mg/L		5.556		100	80-120		
Thallium	585	ug/L		555.6		105	80-120		
Matrix Spike (B332309-MS1)	**Sample: GD04461-03**			Prepared: 05/03/23 Analyzed: 05/04/23					
Antimony	530	ug/L		555.6	ND	95	75-125		
Arsenic	548	ug/L		555.6	21.0	95	75-125		
Barium	1070	ug/L		555.6	541	95	75-125		
Beryllium	550	ug/L		555.6	ND	99	75-125		
Boron	691	ug/L		555.6	129	101	75-125		
Cadmium	522	ug/L		555.6	ND	94	75-125		
Calcium	98.1	mg/L	Q4	5.556	96.3	32	75-125		
Chromium	562	ug/L		555.6	ND	101	75-125		
Cobalt	552	ug/L		555.6	ND	99	75-125		
Lead	531	ug/L		555.6	0.356	95	75-125		
Magnesium	47.9	mg/L	Q4	5.556	44.3	65	75-125		
Mercury	57.8	ug/L		55.56	ND	104	75-125		
Molybdenum	533	ug/L		555.6	ND	96	75-125		
Potassium	7.16	mg/L		5.556	1.80	97	75-125		
Selenium	543	ug/L		555.6	ND	98	75-125		
Sodium	144	mg/L	Q4	5.556	143	10	75-125		
Thallium	561	ug/L		555.6	ND	101	75-125		
Matrix Spike Dup (B332309-MSD1)	**Sample: GD04461-03**			Prepared: 05/03/23 Analyzed: 05/04/23					
Antimony	534	ug/L		555.6	ND	96	75-125	0.8	20
Arsenic	560	ug/L		555.6	21.0	97	75-125	2	20
Barium	1070	ug/L		555.6	541	96	75-125	0.2	20
Beryllium	561	ug/L		555.6	ND	101	75-125	2	20
Boron	707	ug/L		555.6	129	104	75-125	2	20
Cadmium	532	ug/L		555.6	ND	96	75-125	2	20
Calcium	100	mg/L	Q4	5.556	96.3	72	75-125	2	20
Chromium	575	ug/L		555.6	ND	103	75-125	2	20
Cobalt	566	ug/L		555.6	ND	102	75-125	2	20
Lead	536	ug/L		555.6	0.356	96	75-125	1	20
Magnesium	49.1	mg/L	Q4	5.556	44.3	87	75-125	2	20
Mercury	59.4	ug/L		55.56	ND	107	75-125	3	20
Molybdenum	542	ug/L		555.6	ND	98	75-125	2	20
Potassium	7.32	mg/L		5.556	1.80	99	75-125	2	20
Selenium	552	ug/L		555.6	ND	99	75-125	2	20
Sodium	147	mg/L	Q4	5.556	143	66	75-125	2	20
Thallium	565	ug/L		555.6	ND	102	75-125	0.8	20
Batch B332343 - No Prep - SM 2540C									
Blank (B332343-BLK1)				Prepared & Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B332343-BS1)				Prepared & Analyzed: 05/03/23					
Solids - total dissolved solids (TDS)	950	mg/L		1000		95	84.9-109		

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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B332419 - SW 3015 - EPA 6010B									
Blank (B332419-BLK1)				Prepared: 05/04/23 Analyzed: 05/09/23					
Lithium	< 0.020	mg/L							
LCS (B332419-BS1)				Prepared: 05/04/23 Analyzed: 05/09/23					
Lithium	0.564	mg/L		0.5556		102	80-120		
Matrix Spike (B332419-MS1)	**Sample: GD04746-02**			Prepared: 05/04/23 Analyzed: 05/09/23					
Lithium	0.572	mg/L		0.5556	0.0326	97	75-125		
Matrix Spike Dup (B332419-MSD1)	**Sample: GD04746-02**			Prepared: 05/04/23 Analyzed: 05/09/23					
Lithium	0.575	mg/L		0.5556	0.0326	98	75-125	0.5	20
Batch B332419 - SW 3015 - EPA 6020A									
Blank (B332419-BLK1)				Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B332419-BS1)				Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	546	ug/L		555.6		98	80-120		
Arsenic	608	ug/L		555.6		109	80-120		
Barium	548	ug/L		555.6		99	80-120		
Beryllium	549	ug/L		555.6		99	80-120		
Boron	548	ug/L		555.6		99	80-120		
Cadmium	547	ug/L		555.6		99	80-120		
Calcium	5.47	mg/L		5.556		98	80-120		
Chromium	578	ug/L		555.6		104	80-120		
Cobalt	558	ug/L		555.6		100	80-120		
Lead	555	ug/L		555.6		100	80-120		
Magnesium	5.53	mg/L		5.556		100	80-120		
Mercury	56.5	ug/L		55.56		102	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.57	mg/L		5.556		100	80-120		
Selenium	562	ug/L		555.6		101	80-120		
Sodium	5.52	mg/L		5.556		99	80-120		
Thallium	550	ug/L		555.6		99	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 (B332419-MS1)	**Sample: GD04746-02**			Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	523	ug/L		555.6	ND	94	75-125		
Arsenic	593	ug/L		555.6	0.933	107	75-125		
Barium	548	ug/L		555.6	34.8	92	75-125		
Beryllium	515	ug/L		555.6	ND	93	75-125		
Boron	577	ug/L		555.6	53.5	94	75-125		
Cadmium	518	ug/L		555.6	ND	93	75-125		
Calcium	379	mg/L	Q4	5.556	389	NR	75-125		
Chromium	538	ug/L		555.6	3.12	96	75-125		
Cobalt	518	ug/L		555.6	0.828	93	75-125		
Lead	509	ug/L		555.6	0.222	92	75-125		
Magnesium	285	mg/L	Q4	5.556	298	NR	75-125		
Mercury	56.8	ug/L		55.56	ND	102	75-125		
Molybdenum	527	ug/L		555.6	1.26	95	75-125		
Potassium	7.02	mg/L		5.556	1.83	94	75-125		
Selenium	544	ug/L		555.6	ND	98	75-125		
Sodium	248	mg/L	Q4	5.556	259	NR	75-125		
Thallium	509	ug/L		555.6	ND	92	75-125		
Matrix Spike Dup (B332419-MSD1)	**Sample: GD04746-02**			Prepared: 05/04/23 Analyzed: 05/09/23					
Antimony	522	ug/L		555.6	ND	94	75-125	0.2	20
Arsenic	592	ug/L		555.6	0.933	106	75-125	0.2	20
Barium	552	ug/L		555.6	34.8	93	75-125	0.6	20
Beryllium	523	ug/L		555.6	ND	94	75-125	2	20
Boron	586	ug/L		555.6	53.5	96	75-125	2	20
Cadmium	525	ug/L		555.6	ND	94	75-125	1	20
Calcium	385	mg/L	Q4	5.556	389	NR	75-125	2	20
Chromium	546	ug/L		555.6	3.12	98	75-125	1	20
Cobalt	530	ug/L		555.6	0.828	95	75-125	2	20
Lead	517	ug/L		555.6	0.222	93	75-125	1	20
Magnesium	290	mg/L	Q4	5.556	298	NR	75-125	2	20
Mercury	57.0	ug/L		55.56	ND	103	75-125	0.5	20
Molybdenum	534	ug/L		555.6	1.26	96	75-125	1	20
Potassium	7.12	mg/L		5.556	1.83	95	75-125	1	20
Selenium	554	ug/L		555.6	ND	100	75-125	2	20
Sodium	254	mg/L	Q4	5.556	259	NR	75-125	2	20
Thallium	517	ug/L		555.6	ND	93	75-125	2	20
Batch B332511 - No Prep - SM 2320B 1997									
Blank (B332511-BLK1)				Prepared & Analyzed: 05/04/23					
Alkalinity - carbonate as CaCO3	2.50	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Blank (B332511-BLK2)				Prepared & Analyzed: 05/04/23					
Alkalinity - carbonate as CaCO3	2.50	mg/L							
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Duplicate (B332511-DUP1)	**Sample: GD04461-03**			Prepared & Analyzed: 05/04/23					
Alkalinity - bicarbonate as CaCO3	600	mg/L			562			6	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Duplicate (B332511-DUP2)	**Sample: GD04461-03**			Prepared & Analyzed: 05/04/23					

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
Duplicate (B332511-DUP2)	**Sample: GD04461-03**			Prepared & Analyzed: 05/04/23					
Alkalinity - bicarbonate as CaCO3	575	mg/L			562			2	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Batch B332653 - No Prep - SM 4500F C 1997									
Matrix Spike (B332653-MS2)	**Sample: GD04746-02**			Prepared & Analyzed: 05/05/23					
Fluoride	1.38	mg/L		1.000	0.365	102	80-120		
Matrix Spike Dup (B332653-MSD2)	**Sample: GD04746-02**			Prepared & Analyzed: 05/05/23					
Fluoride	1.36	mg/L		1.000	0.365	99	80-120	2	20
Batch B332659 - No Prep - SM 2320B 1997									
Duplicate (B332659-DUP3)	**Sample: GD04746-02**			Prepared & Analyzed: 05/05/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	525	mg/L			525			0	10
Batch B332692 - SW 3015 - EPA 6010B									
Blank (B332692-BLK1)				Prepared: 05/08/23 Analyzed: 05/09/23					
Lithium	< 0.020	mg/L							
LCS (B332692-BS1)				Prepared: 05/08/23 Analyzed: 05/09/23					
Lithium	0.558	mg/L		0.5556		100	80-120		
Batch B332692 - SW 3015 - EPA 6020A									
Blank (B332692-BLK1)				Prepared: 05/08/23 Analyzed: 05/09/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
LCS (B332692-BS1)				Prepared: 05/08/23 Analyzed: 05/09/23					
Antimony	512	ug/L		555.6		92	80-120		
Arsenic	595	ug/L		555.6		107	80-120		
Barium	527	ug/L		555.6		95	80-120		
Beryllium	534	ug/L		555.6		96	80-120		
Boron	531	ug/L		555.6		96	80-120		
Cadmium	525	ug/L		555.6		95	80-120		
Calcium	5.13	mg/L		5.556		92	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 (B332692-BS1)				Prepared: 05/08/23 Analyzed: 05/09/23					
Chromium	545	ug/L		555.6		98	80-120		
Cobalt	542	ug/L		555.6		98	80-120		
Lead	523	ug/L		555.6		94	80-120		
Magnesium	5.36	mg/L		5.556		96	80-120		
Mercury	49.7	ug/L		55.56		89	80-120		
Molybdenum	510	ug/L		555.6		92	80-120		
Potassium	5.37	mg/L		5.556		97	80-120		
Selenium	535	ug/L		555.6		96	80-120		
Sodium	5.38	mg/L		5.556		97	80-120		
Thallium	520	ug/L		555.6		94	80-120		
Batch B332796 - No Prep - SM 2320B 1997									
Duplicate (B332796-DUP2)	**Sample: GD04839-07**			Prepared & Analyzed: 05/08/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	438	mg/L			425			3	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

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

GD0446T
VMW 4-26-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_A213																								
2	NEW_A214																								
3	NEW_A215																								
4	NEW_APW02																								
5	NEW_APW03			4/25/23	1326		11	X	X	X															
6	NEW_APW04			4/25/23	1642		11	X	X	X															
7	NEW_APW05																								
8	NEW_APW05#S																								
9	NEW_APW06																								
10	NEW_APW07																								
11	NEW_APW08																								
12	NEW_APW09																								
13	NEW_APW10																								
14	NEW_APW11																								
15	NEW_APW12																								
16	NEW_APW13																								

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)
NEW-23Q2 Rev 0		4/26/23	706		4-26-23	1020				
		4-26-23	1330		4-26-23	1330	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/25/23

4-26 ~~1020~~ ~~5-3-23~~
EMS 5-3-23

GD04461
VMW 4-26-23

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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW14																								
2	NEW_APW15																								
3	NEW_APW16			4/25/23	1326		22	X	X	X															
4	NEW_APW17			4/25/23	1650		11	X	X	X															
5	NEW_APW18			4/25/23	1503		11	X	X	X															
6	04/26/23 NEW_G104 + Dup			4/25/23	1652		3	X	X	X		X													
7	NEW_G104#S DTW																								
8	NEW_G104&D																								
9	NEW_G105																								
10	NEW_G106			4/25/23	1131		4	X	X	X		X													
11	NEW_G108																								
12	NEW_G109 DTW																								
13	NEW_G110 DTW																								
14	NEW_G111 DTW																								
15	NEW_G112 DTW																								
16	NEW_G113 DTW																								

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)
NEW-23Q2 Rev 0		04/26/23	0706		4-26-23	1020				
		4-26-23	1330		4-26-23	1330	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Robertson

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/25/2023

GD044461
Vmw 4-26-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 6

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)	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_G114																								
2	NEW_G114&D			4/25/23	1804		2	X		X															
3	NEW_G115 DTW																								
4	NEW_G116																								
5	NEW_G117 DTW																								
6	NEW_G118																								
7	NEW_G119 DTW																								
8	NEW_G120 DTW																								
9	NEW_G125																								
10	NEW_G128																								
11	NEW_G130																								
12	NEW_G133																								
13	NEW_G136																								
14	NEW_G139																								
15	NEW_G141																								
16	NEW_G201			4/25/23	1527		4	X	X	X		X													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q2 Rev 0		4/26/23	0706		4-26-23	1020				
		4-26-23	1320	Vmw	4-26-23	1330	1.5	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 Rembecki

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 04/25/23

EMS 5-3-23

GD69461
VMW 4-26-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 of 6

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DUP 4/25/23 NEW_G202 - Duplicate			4/25/23	1208		8	X	X	X		X													
2	NEW_G217#S																								
3	NEW_G221																								
4	NEW_G225																								
5	NEW_G230																								
6	NEW_G231																								
7	NEW_G232																								
8	NEW_G233																								
9	NEW_G234			4/25/23	1542		11	X	X	X	X	X													
10	NEW_L1R_leachate																								
11	NEW_L201_leachate DTW																								
12	NEW_L202_leachate DTW																								
13	NEW_L203_leachate DTW																								
14	NEW_L204_leachate DTW																								
15	NEW_L205_leachate DTW																								
16	NEW_L301_leachate																								

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)
NEW-23Q2 Rev 0		4/26/23	0706		4-26-23	1020				
		4-26-23	1330		4-26-23	1330	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/25/23

EMS 5-3-23

GD04461
VMW 4-26-23

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
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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_LREP_leachate																								
2	NEW_MW34&D																								
3	NEW_MW35&D																								
4	NEW_MW43&D																								
5	NEW_MW46&D																								
6	NEW_R201			4/25/23	1424		4	X	X	X		X													
7	NEW_R202			4/25/23	1311		2	X	X	X		X													
8	NEW_R217&D						2	X																	
9	NEW_R219																								
10	~~NEW_T101~~ EB-01 (04-25-23)			4/25/23	17:15		9																		
11	NEW_T102																								
12	NEW_XPW01_pore																								
13	NEW_XPW02_pore																								
14	NEW_XPW03_pore																								
15	NEW_XPW04_pore																								
16	NEW_XSG01 - DTW																								

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)
NEW-23Q2 Rev 0		4/26/23	0706		4-26-23	1020				
		4-26-23	1330		4-26-23	1330	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/25/23

EMS 5-3-23

6D04746 gw

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_A213																								
2	NEW_A214																								
3	NEW_A215				4/26/23	1640		9	X	X	X	X	X													
4	NEW_APW02																								
5	NEW_APW03																								
6	NEW_APW04																								
7	NEW_APW05S				4/26/23	1740		11	X	X	X														
8	NEW_APW05#S																								
9	NEW_APW06				4/26/23	1600		11	X	X	X														
10	NEW_APW07																								
11	NEW_APW08				4/26/23	1211		11	X	X	X														
12	NEW_APW09																								
13	NEW_APW10																								
14	NEW_APW11				4/26/23	1543		11	X	X	X														
15	NEW_APW12				4/26/23	1356		11	X	X	X														
16	NEW_APW13																								

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)
NEW-23Q2 Rev 0		4/27/23	713		4-27	1030	5			
		4-27	1426		4/27/23	14:20	0	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: James David
SIGNATURE of SAMPLER: James David
DATE Signed (MM/DD/YY): 4/26/23

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

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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW14																								
2	NEW_APW15			4/26/23	1723		11	X	X	X															
3	NEW_APW16																								
4	NEW_APW17																								
5	NEW_APW18																								
6	NEW_G104																								
7	NEW_G104#S DTW																								
8	NEW_G104&D																								
9	NEW_G105																								
10	NEW_G106																								
11	NEW_G108																								
12	NEW_G109 DTW																								
13	NEW_G110 DTW																								
14	NEW_G111 DTW																								
15	NEW_G112 DTW																								
16	NEW_G113 DTW																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q2 Rev 0	Joseph R Reed	4/27/23	1030		4-27	1030
		4-27	1420		4/27/23	14:20

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 4/26/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 6

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_G114																								
2	NEW_G114&D																								
3	NEW_G115 DTW																								
4	NEW_G116																								
5	NEW_G117 DTW																								
6	NEW_G118																								
7	NEW_G119 DTW																								
8	NEW_G120 DTW																								
9	NEW_G125																								
10	NEW_G128 + dup			4/26/23	1500		12	X	X	X		X													
11	NEW_G130																								
12	NEW_G133			4/26/23	1609		6	X	X	X		X													
13	NEW_G136			4/26/23	1702		4	X	X	X		X													
14	NEW_G139																								
15	NEW_G141																								
16	NEW_G201																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q2 Rev 0	Joseph A Reel	4/27/23	1030		4-27	1030	
		4-27	1420		4/27/23	14:20	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: James David
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 4/26/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_G202																								
2	NEW_G217#S			4/26/23	1303		9	X	X	X	X	X														
3	NEW_G221																								
4	NEW_G225																								
5	NEW_G230			4/26/23	1151		9	X	X	X	X	X														
6	NEW_G231			4/26/23	1310		9	X	X	X	X	X														
7	NEW_G232			4/26/23	1416		9	X	X	X	X	X														
8	NEW_G233			4/26/23	1526		9	X	X	X	X	X														
9	NEW_G234																								
10	NEW_L1R_leachate																								
11	NEW_L201_leachate DTW																								
12	NEW_L202_leachate DTW																								
13	NEW_L203_leachate DTW																								
14	NEW_L204_leachate DTW																								
15	NEW_L205_leachate DTW																								
16	NEW_L301_leachate																								

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)
NEW-23Q2 Rev 0	Joseph R Reed	4/27/23	1030		4-27	1030	5	Y	N	Y
		4.27	1420		4/27/23	14:20	0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 4/26/23

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

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 ↓	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_LREP_leachate																							
2	NEW_MW34&D																							
3	NEW_MW35&D																							
4	NEW_MW43&D																							
5	NEW_MW46&D																							
6	NEW_R201																							
7	NEW_R202																							
8	NEW_R217&D			4/26/23	1143		9	XX	XX	X														
9	NEW_R219																							
10	NEW_T101																							
11	NEW_T102																							
12	NEW_XPW01_pore																							
13	NEW_XPW02_pore																							
14	NEW_XPW03_pore																							
15	NEW_XPW04_pore																							
16	NEW_XSG01 - DTW																							

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)
NEW-23Q2 Rev 0	Joseph R Saul	4/27/23	1030		4-27	1030	5			
		4-27	1420		4/27/23	14:20	0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 4/26/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 of 6

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

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	Y/N	Analysis Test	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_YSG02 DTW																									
2	NEW_YSW_S101			4/26/23	1803		9	X	X	X																
3	NEW_YSW_S102			4/26/23	1743		9	X	X	X																
4	4/26/23 EB-02			4/26/23	1630																					
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q2 Rev 0	Josh R Rod	4/27/23	1030		4-27	1020	5
		4-27	1420	gracyfunk	4/27/23	14:20	0.7 2 Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Davis

SIGNATURE of SAMPLER: James Davis

DATE Signed (MM/DD/YY): 4/26/23

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

courier

6D04839
gej

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Requested Analysis Filtered (Y/N)																		
1	NEW_A213	WT	G	4/27/23	1209		9	X	X	X	X	X													
2	NEW_A214	WT	G	4/27/23	1432		9	X	X	X	X	X													
3	NEW_A215																								
4	NEW_APW02	WT	G	4/27/23	1217		11	X	X	X															
5	NEW_APW03																								
6	NEW_APW04																								
7	NEW_APW05	WT	G	4/27/23	1240		11	X	X	X															
8	NEW_APW05#S																								
9	NEW_APW06																								
10	NEW_APW07	WT	G	4/27/23	1035		11	X	X	X															
11	NEW_APW08																								
12	NEW_APW09	WT	G	4/27/23	1405		11	X	X	X															
13	NEW_APW10	WT	G	4/27/23	1547		11	X	X	X															
14	NEW_APW11																								
15	NEW_APW12																								
16	NEW_APW13	WT	G	4/27/23	1716		11	X	X	X															

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)
NEW-23Q2 Rev 0		4/28/23	0705	Brandon Hayman	4/28/23	0705	0		N	
	Brandon Hayman	4/28/23	1245	Grace Jut	4/28/23	12:45	5.7	Y		Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/27/2023

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 6

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

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 ↓	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW14																									
2	NEW_APW15																									
3	NEW_APW16																									
4	NEW_APW17																									
5	NEW_APW18																									
6	NEW_G104																									
7	NEW_G104#S DTW																									
8	NEW_G104&D																									
9	NEW_G105 + Dup	WT	G	4/27/23	1207		8	X	X	X		X														
10	NEW_G106																									
11	NEW_G108																									
12	NEW_G109 DTW																									
13	NEW_G110 DTW																									
14	NEW_G111 DTW																									
15	NEW_G112 DTW																									
16	NEW_G113 DTW																									

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)
NEW-23Q2 Rev 0		4/26/23	0708	Brenda Elmore	4/28/23	0705	2		2	
	Brenda Elmore	4/28/23	1245		4/28/23	1245	5	Y		Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Amberson
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/27/23

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_G114																								
2	NEW_G114&D																								
3	NEW_G115 DTW																								
4	NEW_G116																								
5	NEW_G117 DTW																								
6	NEW_G118																								
7	NEW_G119 DTW																								
8	NEW_G120 DTW																								
9	NEW_G125 + Dup	WT	G	4/27/23	1639		8	X	X	X		X													
10	NEW_G128																								
11	NEW_G130	WT	G	4/27/23	1020	6	6	X	X	X		X													
12	NEW_G133																								
13	NEW_G136																								
14	NEW_G139																								
15	NEW_G141	WT	G	4/27/23	1511		4	X	X	X		X													
16	NEW_G201																								

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)
NEW-23Q2 Rev 0		4/28/23	0705		4/28/23	0705	0		2	
		4/28/23	1245		4/28/23	12:45	0	Y		Y

App 4/27/23

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Kimberlan

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/27/23

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

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)	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_G202																								
2	NEW_G217#S																								
3	NEW_G221	WT	G	4/27/23	1027		9	X	X	X	X	X													
4	NEW_G225	WT	G	4/27/23	1335		9	X	X	X	X	X													
5	NEW_G230																								
6	NEW_G231																								
7	NEW_G232																								
8	NEW_G233																								
9	NEW_G234																								
10	NEW_L1R_leachate	WT	G	4/27/23	1309		9	X	X	X															
11	NEW_L201_leachate DTW																								
12	NEW_L202_leachate DTW																								
13	NEW_L203_leachate DTW																								
14	NEW_L204_leachate DTW																								
15	NEW_L205_leachate DTW																								
16	NEW_L301_leachate																								

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)
NEW-23Q2 Rev 0		4/28/23	0705	Brenden Stuman	4/28/23	0705	2		2	
	Brenden Stuman	4/28/23	1245		4/28/23	12:45	2	Y		Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 04/27/23

CHAIN-OF-CUSTODY / Analytical Request Document

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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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_LREP_leachate																								
2	NEW_MW34&D																								
3	NEW_MW35&D																								
4	NEW_MW43&D																								
5	NEW_MW46&D																								
6	NEW_R201																								
7	NEW_R202																								
8	NEW_R217&D																								
9	NEW_R219																								
10	NEW_T101	WT	G	4/27/23	1604		9	X	X	X															
11	NEW_T102																								
12	NEW_XPW01_pore	WT	G	4/27/23	1407		10	X	X	X															
13	NEW_XPW02_pore	WT	G	4/27/23	1529		10	X	X	X															
14	NEW_XPW03_pore	WT	G	4/27/23	1700		10	X	X	X															
15	~~NEW_XPW04_pore~~ EB-03	WT	G	4/27/23	1435		10	X	X	X															
16	NEW_XSG01 - DTW																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q2 Rev 0		4/28/23	0705		4/28/23	0705
		4/28/23	1245		4/28/23	12:45

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/27/23

CHAIN-OF-CUSTODY / Analytical Request Document

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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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_LREP_leachate																								
2	NEW_MW34&D																								
3	NEW_MW35&D																								
4	NEW_MW43&D																								
5	NEW_MW46&D																								
6	NEW_R201																								
7	NEW_R202																								
8	NEW_R217&D			4/26/23	1134																				
9	NEW_R219	WT	G	4/28/23	1134		9																		
10	NEW_T101																								
11	NEW_T102																								
12	NEW_XPW01_pore																								
13	NEW_XPW02_pore																								
14	NEW_XPW03_pore																								
15	NEW_XPW04_pore	WT	G	4/28/23	1023		10																		
16	NEW_XSG01 - DTW																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q2 Rev 0	Joe Reed	4/28/23				
				[illegible]	4/28/23	16:12

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/28/23

SAMPLE CONDITIONS			
Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
7.7	Y	N	Y

GD04919 gej

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 6

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	GS 5-2-23 NEW_APW14 + dup	WT	G	4/28/23	1129		22																		
2	NEW_APW15																								
3	NEW_APW16																								
4	NEW_APW17																								
5	NEW_APW18																								
6	NEW_G104																								
7	NEW_G104#S DTW																								
8	NEW_G104&D																								
9	NEW_G105																								
10	NEW_G106																								
11	NEW_G108																								
12	NEW_G109 DTW																								
13	NEW_G110 DTW																								
14	NEW_G111 DTW																								
15	NEW_G112 DTW																								
16	NEW_G113 DTW																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q2 Rev 0	Joseph R Reed	4/28/23	16 12			
				grace Just	4/28/23	16:12

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4	Y	2	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 4/28/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A 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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_G114																								
2	NEW_G114&D																								
3	NEW_G115 DTW																								
4	NEW_G116	WT	G	4/28/23	1010		4																		
5	NEW_G117 DTW																								
6	9/5 9/6/23 NEW_G118 + DUP	WT	G	4/28/23	1004		4																		
7	NEW_G119 DTW																								
8	NEW_G120 DTW																								
9	NEW_G125																								
10	NEW_G128																								
11	NEW_G130																								
12	NEW_G133																								
13	NEW_G136																								
14	9/5 9/6/23 NEW_G139 + DUP	WT	G	4/28/23	1128		8																		
15	NEW_G141																								
16	~~NEW-G201~~ EB-04	WT	G	4/28/23	1200		2																		

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)
NEW-23Q2 Rev 0	Joe Reed	4/28/23	1612							
				grace Jurkovich	4/28/23	16:12	4.4	Y	2	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joe Reed

DATE Signed (MM/DD/YY): 4/28/23

SAR-3: Depth to Groundwater Measurements
Plant: NEW
Event: NEW-23Q2

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
A207	NEW_A207	4/24/23	1541	x	36.00	NA	NA	NA	JMD	
A213	NEW_A213		1544	x	18.63				KL	
A214	NEW_A214		1531	x	40.90				KL	
A215	NEW_A215		1527	x	44.03				KL	
G06D	NEW_G006&D		1459	x	28.92				JMD	
G104	NEW_G104		1804	x	4.51				JMD	
G104D	NEW_G104&D		1810	x	50.37				JMD	TD = 89.31
G104S	NEW_G104#S		1806	x	4.68				JMD	TD = 26.04
G105	NEW_G105		1833	x	7.10				JMD	TD = 26.20
G106	NEW_G106		1857	x	20.37				AP	
G109	NEW_G109		1647	x	5.11				JMD	TD = 24.97
G111	NEW_G111		1815	x	5.97				JMD	TD = 22.75
G112	NEW_G112		1823	x	4.38				JMD	TD = 24.62
G113	NEW_G113		1708	x	17.09				JMD	TD = 33.33
G114	NEW_G114		1723	x	13.45				JR	
G114D	NEW_G114&D		1556	x	42.69				JR	
G115	NEW_G115		1612	x	4.04				JR	No lock, no pump
G116	NEW_G116		1733	x	6.00				JMD	
G117	NEW_G117		1845	x	7.08				JMD	TD = 21.90
G118	NEW_G118		1608	x	6.32				JMD	TD = 22.59
G119	NEW_G119		1654	x	4.10				JMD	TD = 23.85
G120	NEW_G120		1632	x	7.33				JMD	TD = 23.38
G125	NEW_G125		1457 JMD 4/24	x	2.84 JMD 4/24				KL	
G128	NEW_G128		~~1531~~ 1511	x	~~19.75~~	3.96			JMD	
G130	NEW_G130		1704	x	4.34				JMD	TD = 22.69
G133	NEW_G133		1658	x	8.84				JMD	TD = 27.32
G136	NEW_G136		1643	x	6.69				JMD	TD = 22.20
G139	NEW_G139		1639	x	6.15				JMD	TD = 23.05
G141	NEW_G141		1515	x	10.99				JMD	TD = 25.16
G201	NEW_G201		1742	x	17.50				JMD	
G202	NEW_G202		1828	x	47.84				JMD	

SAR-3: Depth to Groundwater Measurements
Plant: NEW
Event: NEW-23Q2

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
G203	NEW_G203	4/24/23	1536	x	41.39	NA	NA	NA	JR	No lock
G208	NEW_G208		1534	x	24.02				JMD	
G217S	NEW_G217#S		1439	x	6.20				KL	
G218	NEW_G218		1839	x	19.78				JMD	
G220	NEW_G220		1525	x	17.03				JMD	
G221	NEW_G221		1521	x	21.34				JMD	
G222	NEW_G222		1518	x	15.13				JMD	
G223	NEW_G223		1515	x	33.13				KL	Well has incorrect sign, says G233
G224	NEW_G224		1503	x	42.56				KL	
G225	NEW_G225		1511	x	7.27				JMD	TD= 24.99
G230	NEW_G230		1500	x	47.99				JR	
G231	NEW_G231		1504	x	47.36				JR	
G232	NEW_G232		1509	x	45.73				JR	
G233	NEW_G233		1516	x	41.67				JR	
G234	NEW_G234		1532	x	43.18				JR	
G48MG	NEW_G048MG		1826	x	18.99				JR	TD = 80.07
L1R	NEW_L1R_leachate		1716	x	52.80				KL	
L201	NEW_L201_leachate		1720	x	13.30				KL	Dry
L202	NEW_L202_leachate		1643	x	15.30				KL	Dry
L203	NEW_L203_leachate		1650	x	9.60				KL	Dry
L204	NEW_L204_leachate		1709	x	15.42				KL	
L205	NEW_L205_leachate		1701	x	0.97				KL	
L301	NEW_L301_leachate		NA	x	NA				JMD	No depth to measure
L302	NEW_L302_leachate		NA	x	NA				JMD	Not a well
M25-1	NEW_M25-1		1556	x	2.15				KL	
M25-2	NEW_M25-2		1557	x	1.42				KL	
M25-3	NEW_M25-3		1558	x	1.63				KL	
M25-4	NEW_M25-4		1559	x	2.43				KL	
M25-5	NEW_M25-5		1601	x	5.67				KL	
M25-6	NEW_M25-6		1602	x	12.28				KL	
M25-7	NEW_M25-7		1602	x	18.52				KL	

SAR-3: Depth to Groundwater Measurements
Plant: NEW
Event: NEW-23Q2

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
M26-1	NEW_M26-1	4/24/23	1806	X	2.80	NA	NA	NA	KL	
M26-2	NEW_M26-2		1807	X	23.02				KL	
M26-3	NEW_M26-3		1808	X	23.19				KL	
M26-4	NEW_M26-4		1809	X	NA				KL	Obstruction in well at depth 1.17'
M26-5	NEW_M26-5		1810	X	1.22				KL	
M26-6	NEW_M26-6		1811	X	1.21				KL	
M26-7	NEW_M26-7		1812	X	40.76				KL	
MW31S	NEW_MW31#S		19:35	X	6.00				JMD	TD = 18.69
MW33S	NEW_MW33#S		1600	X	8.32				AP	TD = 29.59
MW34D	NEW_MW34&D		1655	X	14.35				AP	TD = 58.73, unable to close casing
MW35D	NEW_MW35&D		1438	X	26.24				AP	TD = 53.73
MW35S	NEW_MW35#S		1737	X	2.99				JMD	TD = 16.28
MW36S	NEW_MW36#S		1623	X	3.35				AP	TD = 15.49
MW43D	NEW_MW43&D		1812	X	5.73				AP	TD = 40.80
MW46D	NEW_MW46&D		1619	X	16.82				JR	
MW48S	NEW_MW48#S		1833	X	3.52				JR	13.49 = TD
R201	NEW_R201		1445	X	47.56				JR	
R202	NEW_R202		1912	X	47.55					
R216	NEW_R216		1455	X	43.33				KL	
R217D	NEW_R217&D		1444	X	19.15				KL	
R219	NEW_R219		1528	X	20.08				JMD	
T101	NEW_T101		1700	X	5.84				JR	
T102	NEW_T102		1712	X	6.00				JR	
APW02	NEW_APW02				X	21521987				
APW03	NEW_APW03				X	21521988				
APW04	NEW_APW04				X	21503517				
APW05	NEW_APW05				X	21615053				
APW05S	NEW_APW05#S				X	21503536				
APW06	NEW_APW06				X	21615054				
APW07	NEW_APW07				X	21615033				
APW08	NEW_APW08				X	21615032				

SAR-3: Depth to Groundwater Measurements
Plant: NEW
Event: NEW-23Q2

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
APW09	NEW_APW09				X	21522025	NA	NA		
APW10	NEW_APW10				X	21558058				
APW11	NEW_APW11				X	21558059				
APW12	NEW_APW12				X	21503535				
APW13	NEW_APW13				X	21522024				
APW14	NEW_APW14				X	21522035				
APW15	NEW_APW15				X	21522034				
APW16	NEW_APW16				X	21522033				
APW17	NEW_APW17				X	21522023				
APW18	NEW_APW18				X	21522026				
SG02	NEW_YSG02	4/24/23	1444	2.11	X	TBD			AP	
XPW01	NEW_XPW01_pore				X	21503518				
XPW02	NEW_XPW02_pore				X	21522010				
XPW03	NEW_XPW03_pore				X	21503520				
XPW04	NEW_XPW04_pore				X	21503519				
XSG01	NEW_XSG01	4/24/23	1716	534	X	TBD			AP	Staff gauge says 534
MW31D		4/24/23	1936	8.64						TD = 43.20
MW32S			1545	4.93						TD = 22.20
MW32D			1536	15.55						TD = 63.12
MW33D			1557	12.30						TD = 51.71
MW34S			1659	3.58						TD = 18.66
MW36D			1618	7.52						TD = 35.07
MW43S			1812	4.79						TD = 16.54
MW46S			1623	4.28						
MW48D			1831	4.98						TD = 41.54

Lake Levels
4/25/23 11:02 2.15'
4/26/23 8:11 2.19'
4/27/23 11:00 2.20'
4/28/23 7:58 2.17'
9/1/23 15:36 2.05'

GS108 - well removed Jan 2023

NEWTON

WELL/SAMPLE POINT APW02 **Purge Method:** Submersible pump

Date: 4/27/23 Start Time: 1056 Finish/Sample Time: 1217

Well Depth (Bottom) From MP: 24.03 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 3.72 ft Total Purge Volume: 4 Gal (L)

Total Drawdown: 3.11 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1118	6.83	100	6.72	5213.3	15.55	80.2	1.23	24.51
2	1120	6.83	100	6.72	5216.1	15.58	80.7	1.23	23.97
3	1121	6.83	100	6.71	5217.2	15.62	80.8	1.23	25.04
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000mL
0.165 ppm	Soluble Iron ++

Comments APW02 next to APW07. HOBO connect SNs 21615523 and 21615614
FDTW = 6.83

Sampler's Signature:

Newton

WELL/SAMPLE POINT APW03 **Purge Method:** non dedicated pump

Date: 4/25/23 Start Time: 1145 Finish/Sample Time: 1320

Well Depth (Bottom) From MP: 23.47 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 11.94 ft Total Purge Volume: 2 Gal (L)

Total Drawdown: 0.65 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1223	11.34	100	7.02	925	16.94	141	2.50	0.0
2	1224	11.39	100	7.01	925	16.91	140	2.45	0.0
3	1225	11.41	100	7.01	925	16.97	140	2.32	0.0
4	1226	11.47	100	7.01	925	16.97	141	2.25	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)
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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
3	A V 40mL H_2SO_4

Comments 0.106 ppm Soluble iron +2 Final DTW 12.59 PL

Transducer S/N - 216155 24

Sampler's Signature: [signature] for Joe Reel

NEWTON

WELL/SAMPLE POINT APW04 **Purge Method:** Submersible pump

Date: 4/25/23 Start Time: 1450 Finish/Sample Time: 1642

Well Depth (Bottom) From MP: ~~22.63~~ ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 5.10 ft Total Purge Volume: 2.1 Gal / L

Total Drawdown: 6.21 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	1528	9.16	100	6.93	1830	11.79	172	0.93	203
2	1529	9.17	100	6.93	1830	11.79	172	0.93	204
3	1530	9.18	100	6.93	1830	11.79	171	0.93	178
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250~~mL) 1000 mL
1	2.5 L HNO3

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

Comments S/n 21615483 0.155 ppm soluble iron +2

Sampler's Signature: Joseph R Rael

End DTW 11.31

Newton

WELL/SAMPLE POINT APW-055 (MW) **Purge Method:** Bladder pump/low flow

Date: 4/27/23 Start Time: 1110 JR Finish/Sample Time: 1240

Well Depth (Bottom) From MP: NM ft pump Min. Purge Volume: 2 Gal / L

Depth to Water From MP: 14.01 ft Total Purge Volume: 2.3 Gal / L

End DTW 14.05 ft

Total Drawdown: 0.04 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	1149	14.05	100	7.06	824	14.53	-120	17.70	30.0
2	1150	14.05	100	7.08	822	14.50	-122	17.78	36.0
3	1151	14.05	100	7.10	819	14.51	-124	17.70	40.1
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, [redacted] mL) S/1000mL
1	2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, [redacted] mL) S/1000mL
3	TOC 40mL

Comments S/n - 21629308 Dis. $Iron^{+2}$ = 1.151 ppm

Sampler's Signature: Joseph R Reed

NEWTON

WELL/SAMPLE POINT APW05S (LA) Purge Method: Submersible pump

Date: 4/26/23 Start Time: 1633 Finish/Sample Time: 1740

Well Depth (Bottom) From MP: 23.24 ft Min. Purge Volume: 2 Gal / L

Depth to Water From MP: 9.46 ft Total Purge Volume: 2.3 Gal / L

End DTW 10.23

Total Drawdown: 0.77 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1655	10.17	100	6.64	3940	16.35	101	3.61	225
2	56	10.17	100	6.62	3940	16.36	100	3.58	230
3	57	10.17	100	6.60	3930	16.35	97	3.53	220
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5L HNO3

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

Comments S/N -21615502 Dissolved Iron $^{+2}$ = 0.259 ppm

Sampler's Signature: Joseph R Reed

NEWTON

WELL/SAMPLE POINT APW06 **Purge Method:** Submersible pump

Date: 4/26/23 Start Time: 1443 Finish/Sample Time: 1600

Well Depth (Bottom) From MP: 75.75 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 19.33 ft Total Purge Volume: 2.3 Gal / L

End DTW 19.45

Total Drawdown: 0.12 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1510	19.45	100	7.36	795	17.55	-126	10.71	400
2	1511	19.45	100	7.35	797	17.55	-128	10.70	436
3	1512	19.45	100	7.35	796	17.55	-128	10.71	471
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) 1000 mL
1	2.5 L HNO3

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

Comments Disolved Iron #2 = 0.904 ppm
S/N- 216 29309

Sampler's Signature: Joseph R Reed

Newton

WELL/SAMPLE POINT APW07 **Purge Method:** Submersible pump

Date: 4/27/23 Start Time: 0919 Finish/Sample Time: 1035

Well Depth (Bottom) From MP: 85.77 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 46.59 ft Total Purge Volume: 7 Gal (L)

Total Drawdown: 0.00 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	0946	46.59	100	7.39	1050.9	14.41	-117.0	0.47	625.73
2	0947	46.59	100	7.40	1051.9	14.46	-117.0	0.48	648.42
3	0949	46.59	100	7.39	1050.7	14.50	-115.6	0.51	620.77
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
1:103 ppm	Soluble Iron $^{+2}$

Comments HOBO serial # SN 21629296
Dedicated pump wasn't working properly. It discharges all the water in the tubing and then air. Pulled pump and used portable pump.

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW08 **Purge Method:** Dedicated pump

Date: 4/26/23 Start Time: 1048 Finish/Sample Time: 1211

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2.4 Gal (L)

Depth to Water From MP: 37.56 ft Total Purge Volume: 2.4 Gal (L)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1110	37.56	100	7.52	1105.4	14.24	-118.1	1.63	14.80
2	1111	37.56	100	7.53	1115.9	14.27	-117.2	1.67	16.76
3	1113	37.56	100	7.52	1100.0	14.23	-118.0	1.66	17.73
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000 mL
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
2.641	Soluble Iron +2

ppm

Comments HOBO correct SN 21629295

Sampler's Signature: [signature]

Newton

WELL/SAMPLE POINT APW09 **Purge Method:** Submersible pump

Date: 4/27/23 Start Time: 1240 Finish/Sample Time: 1405

Well Depth (Bottom) From MP: 57.97 ft Min. Purge Volume: 2 Gal / (L)

Depth to Water From MP: 26.56 ft Total Purge Volume: 6 Gal (L)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1304	26.56	100	7.53	1357.2	16.47	-134.6	0.53	93.33
2	1306	26.56	100	7.53	1357.4	16.51	-136.0	0.50	100.42
3	1307	26.56	100	7.53	1356.5	16.54	-137.0	0.47	116.74
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquaroll 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)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40 ml H2SO4
1	P 1000 mL
2.279 ppm	Soluble Iron+2

Comments APW09 next to APW03. HOBOconnect SNs 21615616 and 21615524
Dedicated pump not pumping water at all. Pulled pump and used portable pump

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW10 **Purge Method:** Dedicated pump

Date: 4/27/23 Start Time: 1420 Finish/Sample Time: 1547

Well Depth (Bottom) From MP: 48.55 ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 17.53 ft Total Purge Volume: 2.3 Gal (L)

Total Drawdown: 0.11 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1442	17.59	100	7.36	1463.9	15.14	77.4	3.38	0.00
2	1443	17.59	100	7.36	1466.9	15.17	77.5	3.37	0.00
3	1445	17.59	100	7.36	1461.2	15.13	77.5	3.39	0.00
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40 mL H2SO4
1	P 1000 mL
0.025 ppm	Soluble Iron+2

Comments APW 10 reset to APW04. HOBO connect SNs 21615483 and 21615555
Top 3 feet of pump tubing is folded in well. Needs to be cut off and reattached to wellhead adapter. Folded tubing has caused holes and leaks.

Sampler's Signature:

FDTW = 17.64'

NEWTON

WELL/SAMPLE POINT APW11 **Purge Method:** Dedicated pump

Date: 4/26/23 Start Time: 1406 Finish/Sample Time: 1543

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 24.27 ft Total Purge Volume: 2.3 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	1432	24.32	100	7.14	1253.8	15.52	-13.8	0.67	471.71
2	1433	24.32	100	7.14	1252.4	15.56	-15.5	0.66	456.53
3	1435	24.32	100	7.15	1252.5	15.51	-17.8	0.64	445.59
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000mL
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000mL
0.721 ppm	Soluble Iron +2

Comments Hach connect SN 21615556
Final DTW = 24.36

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW12 **Purge Method:** Dedicated pump

Date: 4/26/23 Start Time: 1229 Finish/Sample Time: 1356

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 14.56 ft Total Purge Volume: 23 Gal (L)

Total Drawdown: 0.02 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	1252	14.58	100	6.51	1817.1	14.64	109.5	1.04	1.02
2	1253	14.58	100	6.52	1817.1	14.66	108.7	1.02	0.62
3	1255	14.58	100	6.52	1831.4	14.65	107.4	0.98	0.52
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000mL
1	P 2.5L HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000mL
0.107 ppm	Soluble Iron +2

3-D 4/26

Comments HOBO connect SN 21615501

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW13 **Purge Method:** Dedicated pump

Date: 4/27/23 Start Time: 1554 Finish/Sample Time: 1716

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 32.05 ft Total Purge Volume: 2.3 Gal (L)

Total Drawdown: 0.10 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	1616	32.15	100	7.26	1376.7	14.29	-22.8	1.58	0.00
2	1617	32.15	100	7.26	1377.2	14.33	-24.1	1.61	0.00
3	1619	32.15	100	7.26	1360.1	14.28	-25.3	1.63	0.00
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40 mL H2S04
1	P 1000 mL
1.31L	Soluble Iron+2

ppm

Comments HOBOconnect SN 21615615

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW14 **Purge Method:** Dedicated pump

Date: 4/28/23 Start Time: 0908 Finish/Sample Time: ~~0~~ 1129 (Jun 4/28)

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal / (L)

Depth to Water From MP: 20.72 ft Total Purge Volume: 2.4 Gal (L)

Total Drawdown: 0.08 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	0930	20.76	100	7.35	1481.3	14.87	-93.3	1.28	12.43
2	0931	20.76	100	7.34	1473.8	14.85	-94.0	1.25	6.05
3	0933	20.76	100	7.34	1480.5	14.84	-95.0	1.22	8.81
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 + 3 dup	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 + 1 dup	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1 + 1 dup	P 2.5 L HNO3
1 + 1 dup	P 1000 mL

Filtered	
Qty	Bottles
1 + 1 dup	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3 + 3 dup	AV 40 mL H2SO4
1 + 1 dup	P 1000 mL
3.827 ppm	Soluble Iron **

Comments HOBO connect SN 21C1562C
Field dup
FDTU: 20.80

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW15 **Purge Method:** Dedicated pump

Date: 4/26/23 Start Time: 1601 Finish/Sample Time: 1723

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 21.43 ft Total Purge Volume: 2.3 Gal (L)

Total Drawdown: 0.72 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	1623	22.05	100	7.26	1694.5	15.26	-125.3	0.34	63.37
2	1625	22.05	100	7.25	1658.2	15.28	-125.5	0.33	56.78
3	1626	22.05	100	7.25	1682.1	15.32	-125.6	0.32	51.55
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 1000mL
1	P 2.5 HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000mL
Overread >6 ppm	Soluble Iron ++

Comments HOBO connect SN 21615625 Soluble Iron ++ reading was over the limit of 6 ppm
Final DTW = 22.15'

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW16 **Purge Method:** Dedicated pump

Date: 4/25/23 Start Time: 1108 Finish/Sample Time: 1326

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 40.15 ft Total Purge Volume: 2 Gal (L)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1137	40.15	100	7.64	947.82	14.10	-100.7	1.24	0.78
2	1138	40.15	100	7.65	949.58	14.04	-102.3	1.21	0.02
3	1140	40.15	100	7.65	953.00	14.04	-103.5	1.20	0.21
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)
6	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
2	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
2	General (P, 250 mL) 1000 mL
1	P 2.5L HNO3
1	P 1000mL HNO3

Filtered	
Qty	Bottles
2	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
6	AV 40mL H2SO4
2	P 1000mL
2.271 ppm	Soluble Iron +2

Comments HOBO correct SN 21615624
MS/MSD

Sampler's Signature: [signature]

NEWTON

WELL/SAMPLE POINT APW17 **Purge Method:** Dedicated Pump

Date: 4/25/23 Start Time: 1527 Finish/Sample Time: 1650

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2.2 Gal (L)

Depth to Water From MP: 41.09 ft Total Purge Volume: 2.2 Gal (L)

Total Drawdown: 0.00 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	1552	41.09	100	7.62	1161.9	15.13	-95.4	1.24	3.04
2	1553	41.09	100	7.62	1161.8	15.14	-96.3	1.22	2.84
3	1555	41.09	100	7.62	1162.3	15.17	-97.2	1.20	3.82
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	4V 40mL H2SO4
1	P 1000mL
1.933 ppm	Soluble Iron Fe

Comments APW17 next to APW02. HOBOconnect SN: 21615523 and 21615614

Sampler's Signature:

NEWTON

WELL/SAMPLE POINT APW18 **Purge Method:** Dedicated pump

Date: 4/25/23 Start Time: 1340 Finish/Sample Time: 1503

Well Depth (Bottom) From MP: NM ft Min. Purge Volume: 2 Gal (L)

Depth to Water From MP: 51.63 ft Total Purge Volume: 2 Gal (L)

Total Drawdown: 0.00 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1405	51.63	100	7.77	1019.1	15.20	-134.0	1.10	10.57
2	1406	51.63	100	7.77	1015.5	15.17	-135.3	1.07	6.27
3	1408	51.63	100	7.78	1012.4	15.18	-136.7	1.05	5.01
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 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	P 2.5L HNO3
1	P 1000 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
3	AV 40mL H2SO4
1	P 1000 mL
1.328 ppm	Soluble Iron +2

Comments HOBO connect SN 21615617

Sampler's Signature: [signature]

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Vistra Newton
Weather:	43-62°F p.cloudy wind W 5-10mph	Environment:	grass, dirt rock roads

Multiparameter Water Meter	Make: Aquatroll	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	4.11	s.u.	±0.1 s.u.	Fail	Yes	4.06	MSI	L344-09	12/14/2023
pH 7.00a	6.86	s.u.	±0.1 s.u.	Fail	Yes	7.06	MSI	L343-07	12/9/2023
pH 10.00a	9.89	s.u.	±0.1 s.u.	Fail	Yes	10.08	MSI	M082-04	3/25/2024
SC Zero (DI)	12.13	µS/cm	0<25 µS/cm	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2023.0	µS/cm	±5%	Pass	No	NA	Geotech	2GE1442	May-23
ORP	244.3	mV	±15 mV	Pass	No	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	Pass	No	NA	Macron	#000228049	8/26/2025
DO (Saturated)	90.87	%	97-100%	Fail	Yes	99.73	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 10:16			
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	2GC243	Mar-24
pH 7.00b	7.07	s.u.	±0.15 s.u.	Pass	NA	Geotech	2GC931	Mar-24
pH 10.00b	10.07	s.u.	±0.15 s.u.	Pass	NA	Geotech	2GE820	May-24
SC 1000	965.05	µS/cm	±5%	Pass	NA	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1731				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	pass	No	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.	pass	No	NA	MSI	L172-33	6/23/2023
pH 10.00a	10.16	s.u.	±0.1 s.u.	pass	No	NA	MSI	L354-22	1/5/2024
SC 1000	969.37	µS/cm	±5%	pass	No	NA	Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	±0.1 mg/L	pass	No	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU	pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
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:	4/25/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	46° to 65° cloudy	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	6L9KJ9H2	
Water Level Meter	Make: Huron	Model: water tape	Serial Number:	19FF2111192HB	

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/a	N/a	MSI	L344-09	12/14/2023
pH 7.00a	6.97	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)	25.00	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	238	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.48	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.84	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 10:21			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.		NA	Geotech	2GC243	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000 9780	~~9.78~~	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 17:45				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.07	s.u.	±0.1 s.u.	P	Na	Na	MSI	L315-04	11/22/2023
7.00a	6.94	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	9.97	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1016	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.88	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	4-25-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Newton Power Station
Weather:	40-65° Mostly sunny winds 5-10 mph	Environment:	Grassy, gravel road
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: U4UIEVTF
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 19FF2202B1ML

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	7.04	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)	8	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2050	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	244	mV	±15 mV				inSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.8	%	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)

22.64°C

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 1010			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	6.97	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	1010	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1815			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1010	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.5	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:	Joseph R Reed	Date:	4/25/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Rembert	Location:	Newton
Weather:	45°-63°F cloudy wind SE 3mph	Environment:	grass, dirt, woods

Multiparameter Water Meter	Make: AT	Model: 600	Serial Number:	762 193	
Water Level Meter	Make: Heron	Model: Dipper i	Serial Number:	11Sf220930SMC	

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	L344-09	12/14/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	21.07	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2044.7	µS/cm	±5%	P	NO	N/A	Geotech	2GE1442	May-23
ORP	236.9	mV	±15 mV	P	NO	N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	83.74	%	97-100%	P	yes	~~1000~~ 100	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	2.72	NTU	<2 NTU	P	yes	0.00	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

App 4/25/23

2HZ @ 15°C

ICV (Initial Calibration Verification)					Time: 0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.09	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.93	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC931	Mar-24
pH 10.00b	10.01	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE820	May-24
SC 1000	986.46	µS/cm	±5%	P	N/A	Ricca	4205H64	May-24

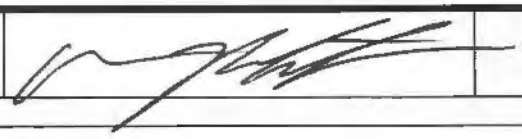
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1831				
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	7.08	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L172-33	6/23/2023
pH 10.00a	10.07	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L354-22	1/5/2024
SC 1000	1024	µS/cm	±5%	P	NO	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	1.81	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	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:	4/25/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	V.3fra Newton
Weather:	42-62°F p.sunny wind NW 5mph	Environment:	grassy

Multiparameter Water Meter	Make: Aquatroll	Model: 606	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	3.98	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	10.07	s.u.	±0.1 s.u.	↓	↓	↓	MSI	M082-04	3/25/2024
SC Zero (DI)	14.62	µS/cm	0<25 µS/cm	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1937.2	µS/cm	±5%	↓	↓	↓	Geotech	2GE1442	May-23
ORP	252.0	mV	±15 mV	↓	↓	↓	InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	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

ICV (Initial Calibration Verification)					Time: 0916			
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	2GC243	Mar-24
pH 7.00b	6.91	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	981.01	µS/cm	±5%	↓	↓	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1740				
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	L315-04	11/22/2023
pH 7.00a	7.07	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	955.42	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)	0.00	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	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:	4/26/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Newton
Weather:	52°-63°F Sunny Wind NE 5mph	Environment:	grass, dirt

Multiparameter Water Meter	Make: AT	Model: 600	Serial Number:	762193	
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	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.04	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)	3.93	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2025.1	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240.0	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.108	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.64	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.15	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: 0952			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	6.89	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1000.05	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1720			
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	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.	P			MSI	L172-33	6/23/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	P			MSI	L354-22	1/5/2024
SC 1000	999.72	µS/cm	±5%	P			Ricca	2108D48	Jul-23
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	1.03	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature:	[signature]	Date:	4/26/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	41° to 63° Sunny cloudy	Environment:	Dry

Multiparameter Water Meter	Make:	Horiba	Model:	U-5000	Serial Number:	419KJ9HA
Water Level Meter	Make:	Heron	Model:	Water tape	Serial Number:	19FE2111192HB

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/a	n/a	MSI	L344-09	12/14/2023
pH 7.00a	6.81	s.u.	±0.1 s.u.	F	7.00	7.00	MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	±0.1 s.u.	P	n/a	n/a	MSI	M082-04	3/25/2024
SC Zero (DI)	13.00	µS/cm	0<25 µS/cm	P	n/a	n/a	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1790	µS/cm	±5%	F	2000	2000	Geotech	2GE1442	May-23
ORP	243	mV	±15 mV	P	n/a	n/a	InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	P	n/a	n/a	Macron	#000228049	8/26/2025
DO (Saturated)	97.46	%	97-100%	P	n/a	n/a	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.90	NTU	<2 NTU	P	n/a	n/a	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	3.95	s.u.	±0.15 s.u.	P	n/a	Geotech	2GC243	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.13	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	990	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 18:48				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.08	s.u.	±0.1 s.u.	P	n/a	n/a	MSI	L315-04	11/22/2023
7.00a	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.05	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1041	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.07	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.40	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	4-26-2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Newton Power
Weather:	54-63° sunny w 4-7mph	Environment:	Dusty road / grass
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: U4U1FVTF
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	3.99	s.u.	±0.1 s.u.	P	Y		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	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	5	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	235	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	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)	0.40	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

19.25°C

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 1236			
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	2GC243	Mar-24
pH 7.00b	6.95	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.97	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1030	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1858				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1010	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.6	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:	Joseph R Reed	Date:	4/26/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Newton
Weather:	brkn clouds, wind NE 7 mph	Environment:	grass, dirt, woods

Multiparameter Water Meter	Make: AT	Model: 600	Serial Number:	762193	
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	4.04	s.u.	±0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.02	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)	3.52	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2022.2	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	234	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.72	%	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

24 z @ 15°c

ICV (Initial Calibration Verification)

Time: 0903

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	6.89	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	994.75	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 1200

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	10.03	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	0995.1	µS/cm	±5%				Ricca	2108D48	Jul-23
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	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:	4/27/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Newton
Weather:	50-69° partcloudy windy mph	Environment:	Dusty grassy
Multiparameter Water Meter	Make: Horiba	Model: U-50 10	Serial Number: U4U1FVTF
Water Level Meter	Make: Heron	Model: Dipper	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	Y		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	fail	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.5	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	234	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.1	%	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:

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	2GC243	Mar-24
pH 7.00b	7.01	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.02	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	Y		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	10.00	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)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

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

Comments:

Signature: Joe Reed — Date: 4/27/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JO	Location:	Vistra Newton
Weather:	40-69°F wind NE 5mph	Environment:	grassy, rock road

Multiparameter Water Meter	Make: Aquatroll	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	4.04	s.u.	±0.1 s.u.	Pass	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)	7.25	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1914.8	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	255.8	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.49	%	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: 0849			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.10	s.u.	±0.15 s.u.	Pass	NA	Geotech	2GC243	Mar-24
pH 7.00b	6.92	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.94	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	962.41	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1739				
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	7.06	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	965.34	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.06	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	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:	4/27/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	45° to 70° Sunny	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	9L9KJ4Ha	
Water Level Meter	Make: Heron	Model: Water tape	Serial Number:	IIFF209305Mi	

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/A	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	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	12.14	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1978	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	241.6	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.06	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated) 97.49	97.4	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.30	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 08:47			
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/a	Geotech	2GC243	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.91	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	96% 960	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 12:34				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.05	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L315-04	11/22/2023
7.00a	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	10.07	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)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.10	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	4-27-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Newton Power
Weather:	56° to 70° sunny	Environment:	Wet

Multiparameter Water Meter	Make: HoriBa	Model: U-52 10	Serial Number:	YL 9kJ9Ha	
Water Level Meter	Make: Heron	Model: Water tape	Serial Number:	19FF22013 1ML	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.35	s.u.	±0.1 s.u.	F	Y	4.00	MSI	L344-09	12/14/2023
pH 7.00a	6.91	s.u.	±0.1 s.u.	P	N/a	N/a	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)	20.10	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)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.00	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.60	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)

Time: 09:45

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	N/a	Geotech	2GC243	Mar-24
pH 7.00b	6.87	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	960	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time:

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

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):

Time: 12:04

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.02	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L315-04	11/22/2023
7.00a	6.98	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a	9.92	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1,030	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.30	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	4-28-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Newton
Weather:	55°-61°F sunny winds N'ward	Environment:	grass, gravel, dirt

Multiparameter Water Meter	Make: AT	Model: 600	Serial Number:	762193	
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number:	11FF220930sm	

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	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	10.02	s.u.	±0.1 s.u.				MSI	MD82-04	3/25/2024
SC Zero (DI)	21.21	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2024.1	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	237.1	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.5%	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.03	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: 0829			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24
pH 7.00b	6.97	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	989.79	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

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

Approx. every 4 hrs, unless only one well

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

Comments:

Signature:	[signature]	Date:	4/28/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Vistra Newton
Weather:	52-70°F p.sunny wind NE 10mph	Environment:	grassy

Multiparameter Water Meter	Make: Aquatroll	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	4.07	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	10.02	s.u.	±0.1 s.u.	↓	↓	↓	MSI	M082-04	3/25/2024
SC Zero (DI)	19.34	µS/cm	0<25 µS/cm	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1982.7	µS/cm	±5%	↓	↓	↓	Geotech	2GE1442	May-23
ORP	250.9	mV	±15 mV	↓	↓	↓	InSitu	2G1762	Jun-23
DO (Zero pt)	0.06	mg/L	±0.1	↓	↓	↓	Macron	#000228049	8/26/2025
DO (Saturated)	99.48	%	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: 0845			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.10	s.u.	±0.15 s.u.	pass	NA	Geotech	2GC243	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	954.22	µS/cm	±5%	↓	↓	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1200				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	pass	No	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L354-22	1/5/2024
SC 1000	969.19	µS/cm	±5%	↓	↓	↓	Ricca	2108D48	Jul-23
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	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:	4/28/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Newton Power
Weather:	56-74 part cloudy wind 10mph	Environment:	grassy
Multiparameter Water Meter	Make: Horiba	Model: U-52000	Serial Number: 04UIFXTF
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	4.00	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	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2018	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.3	%	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: 830

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	6.99	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	1017	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1217

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.01	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)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

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

Comments:

Signature: Joseph E Reed Date: 4/28/23

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

June 08, 2023

Terry Hanratty
Vistra - Newton
Newton Energy Center 6725 N. 500th St
Newton, IL 62448

Dear Terry Hanratty:

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 GD04486

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

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

Work Order GD04770

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

Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
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Work Order GD04853

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

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

Work Order GD04926

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

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

ANALYTICAL RESULTS

Sample: GD04486-01 **Sampled:** 04/25/23 13:20
Name: APW03 **Received:** 04/26/23 13:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.598	05/19/23 14:32		904.0 903.0

Sample: GD04486-02 **Sampled:** 04/25/23 16:42
Name: APW04 **Received:** 04/26/23 13:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1	pCi/L			1	0.518	05/19/23 14:32		904.0 903.0

Sample: GD04486-03 **Sampled:** 04/25/23 13:26
Name: APW16 **Received:** 04/26/23 13:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.05	pCi/L			1	0.472	05/19/23 14:32		904.0 903.0

Sample: GD04486-04 **Sampled:** 04/25/23 16:50
Name: APW17 **Received:** 04/26/23 13:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.42	pCi/L			1	0.493	05/19/23 14:32		904.0 903.0

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Peoria, IL 61615
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ANALYTICAL RESULTS

Sample: GD04486-05 **Sampled:** 04/25/23 15:03
Name: APW18 **Received:** 04/26/23 13:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.33	pCi/L			1	0.476	05/19/23 14:32		904.0 903.0

Sample: GD04486-06 **Sampled:** 04/25/23 17:15
Name: EB-01 **Received:** 04/26/23 13:30
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.426 J	pCi/L			1	0.652	05/19/23 14:32		904.0 903.0

Sample: GD04770-01 **Sampled:** 04/26/23 17:40
Name: APW05S **Received:** 04/27/23 14:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.141 U	pCi/L			1	0.784	05/31/23 08:55		904.0 903.0

Sample: GD04770-02 **Sampled:** 04/26/23 16:00
Name: APW06 **Received:** 04/27/23 14:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.2	pCi/L			1	0.686	05/31/23 08:55		904.0 903.0

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ANALYTICAL RESULTS

Sample: GD04770-03 **Sampled:** 04/26/23 12:11
Name: APW08 **Received:** 04/27/23 14:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.941	pCi/L			1	0.628	05/31/23 08:55		904.0 903.0

Sample: GD04770-04 **Sampled:** 04/26/23 15:43
Name: APW11 **Received:** 04/27/23 14:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.17	pCi/L			1	0.566	05/31/23 08:55		904.0 903.0

Sample: GD04770-05 **Sampled:** 04/26/23 13:56
Name: APW12 **Received:** 04/27/23 14:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.0586 U	pCi/L			1	0.697	05/31/23 08:55		904.0 903.0

Sample: GD04770-06 **Sampled:** 04/26/23 17:23
Name: APW15 **Received:** 04/27/23 14:20
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.97	pCi/L			1	0.696	05/31/23 08:55		904.0 903.0

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Sample: GD04770-07 **Sampled:** 04/26/23 16:30
Name: EB-02 **Received:** 04/27/23 14:20
Matrix: Ground Water - Equipment Blank

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.142 U	pCi/L			1	0.528	05/31/23 08:55		904.0 903.0

Sample: GD04853-01 **Sampled:** 04/27/23 12:17
Name: APW02 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.768	pCi/L			1	0.551	05/19/23 14:32		904.0 903.0

Sample: GD04853-02 **Sampled:** 04/27/23 12:40
Name: APW05 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.841	pCi/L			1	0.471	05/19/23 14:32		904.0 903.0

Sample: GD04853-03 **Sampled:** 04/27/23 10:35
Name: APW07 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2.09	pCi/L			1	0.546	05/19/23 14:32		904.0 903.0

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ANALYTICAL RESULTS

Sample: GD04853-04 **Sampled:** 04/27/23 14:05
Name: APW09 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	2	pCi/L			1	0.449	05/19/23 14:32		904.0 903.0

Sample: GD04853-05 **Sampled:** 04/27/23 15:47
Name: APW10 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.316 J	pCi/L			1	0.562	05/19/23 14:32		904.0 903.0

Sample: GD04853-06 **Sampled:** 04/27/23 17:16
Name: APW13 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.651	pCi/L			1	0.485	05/19/23 14:32		904.0 903.0

Sample: GD04853-07 **Sampled:** 04/27/23 14:35
Name: EB-03 **Received:** 04/28/23 12:45
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.418 J	pCi/L			1	0.513	05/19/23 14:32		904.0 903.0

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ANALYTICAL RESULTS

Sample: GD04926-01
Name: APW14
Alias: NEW_811_502

Sampled: 04/28/23 11:29
Received: 04/28/23 16:12
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	0.381 J	pCi/L			1	0.465	05/24/23 00:32		904.0 903.0

Sample: GD04926-02
Name: APW14 DUP
Alias: NEW_811_502

Sampled: 04/28/23 11:29
Received: 04/28/23 16:12
Matrix: Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Miscellaneous - Pace Analytical - Mt Juliet, Tn									
Rad 226 and 228-Subcontract	1.71	pCi/L			1	0.584	05/31/23 08:55		904.0 903.0

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QC SAMPLE RESULTS

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

Pace Analytical Services, LLC
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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

Gail J Schindler

Certified by: Gail Schindler, Project Manager

ANALYTICAL REPORT

May 31, 2023

Pace IR - Peoria, IL

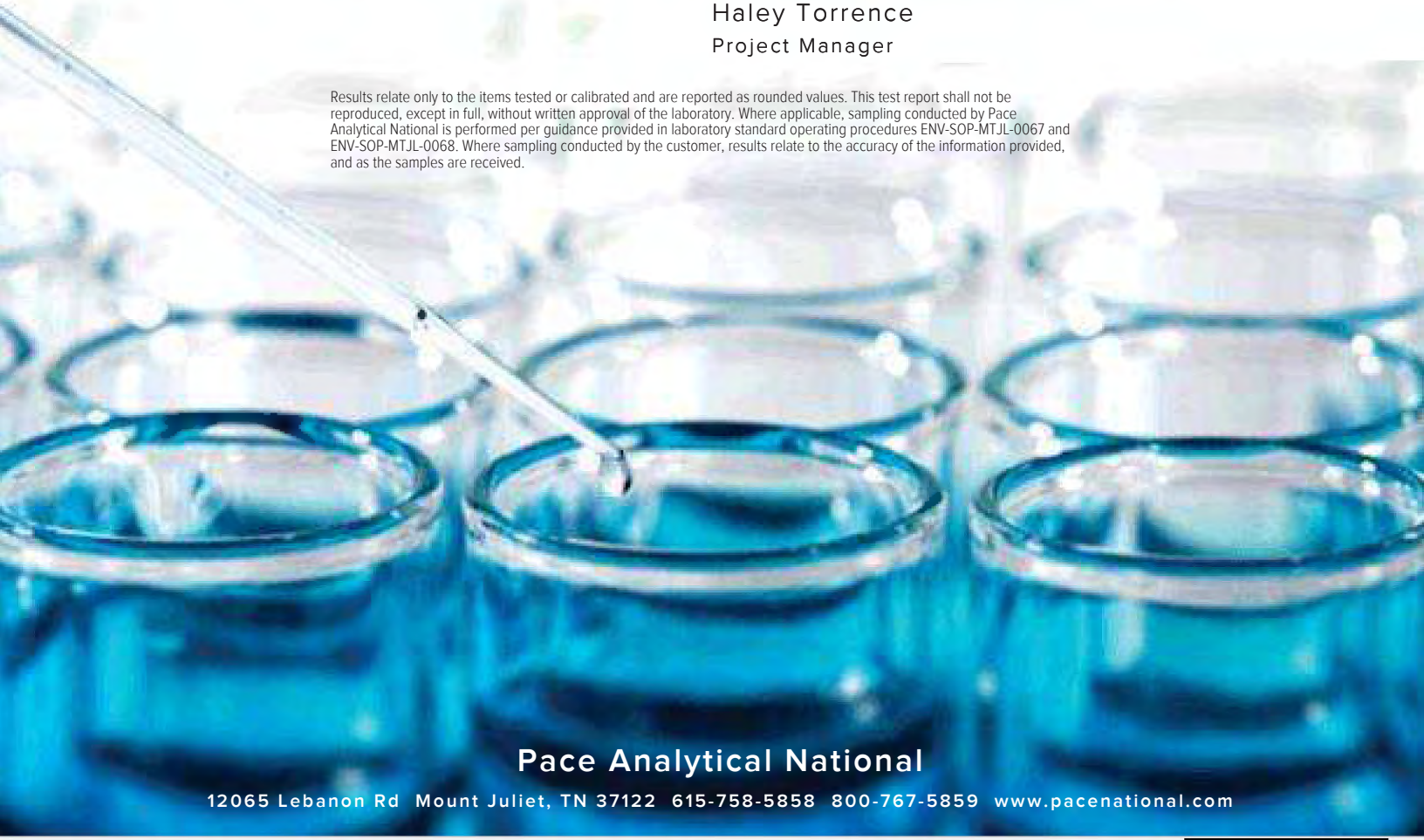
Sample Delivery Group:	L1611854
Samples Received:	05/03/2023
Project Number:	GD04486
Description:	Vistra-Newton
Site:	001
Report To:	Gail Schindler 2231 W. Altorfer Drive Peoria, IL 61615

Entire Report Reviewed By:

[Preliminary Report]

Haley Torrence
Project Manager

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



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

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SAMPLE SUMMARY

APW03 L1611854-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/25/23 13:20	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RRE	Mt. Juliet, TN

APW04 L1611854-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/25/23 16:42	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW16 L1611854-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/25/23 13:26	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW17 L1611854-04 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/25/23 16:50	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW18 L1611854-05 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/25/23 15:03	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

EB-01 L1611854-06 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/25/23 17:15	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

CASE NARRATIVE

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

[Preliminary Report]

Haley Torrence
Project Manager

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.267	J	0.241	0.432	05/19/2023 14:32	WG2061003
(T) Barium	*109*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*90.0*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.02		0.551	0.598	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.754		0.496	0.414	05/18/2023 18:05	WG2058951
(T) Barium-133	*39.3*			*30.0-143*	*05/18/2023 18:05*	WG2058951

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.543		0.253	0.444	05/19/2023 14:32	WG2061003
(T) Barium	*109*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*112*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.00		0.379	0.518	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.462		0.282	0.266	05/18/2023 18:05	WG2058951
(T) Barium-133	*95.1*			*30.0-143*	*05/18/2023 18:05*	WG2058951

APW16 SAMPLE RESULTS - 03
Collected date/time: 04/25/23 13:26 L1611854

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.28		0.264	0.442	05/19/2023 14:32	WG2061003
(T) Barium	*118*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*105*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.05		0.408	0.472	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.774		0.311	0.166	05/18/2023 18:05	WG2058951
(T) Barium-133	*91.0*			*30.0-143*	*05/18/2023 18:05*	WG2058951

APW17 SAMPLE RESULTS - 04
Collected date/time: 04/25/23 16:50 L1611854

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.696		0.244	0.423	05/19/2023 14:32	WG2061003
(T) Barium	*110*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*100*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.42		0.417	0.493	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.725		0.338	0.254	05/18/2023 18:05	WG2058951
(T) Barium-133	*87.1*			*30.0-143*	*05/18/2023 18:05*	WG2058951

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

APW18 SAMPLE RESULTS - 05
Collected date/time: 04/25/23 15:03 L1611854

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.515		0.238	0.417	05/19/2023 14:32	WG2061003
(T) Barium	*108*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*94.8*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.33		0.413	0.476	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.819		0.338	0.230	05/18/2023 18:05	WG2058951
(T) Barium-133	*118*			*30.0-143*	*05/18/2023 18:05*	WG2058951

EB-01 SAMPLE RESULTS - 06
Collected date/time: 04/25/23 17:15 L1611854

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.653	U	0.262	0.500	05/19/2023 14:32	WG2061003
(T) Barium	*105*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*114*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.426	J	0.434	0.652	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.426		0.346	0.419	05/18/2023 18:05	WG2058951
(T) Barium-133	*89.5*			*30.0-143*	*05/18/2023 18:05*	WG2058951

Cp Tc Ss Cn Sr Qc Gl Al Sc

WG2061003 QUALITY CONTROL SUMMARY

Radiochemistry by Method 9041/9320 L1611854-01,02,03,04,05,06

Method Blank (MB)

(MB) R3929806-1 05/19/23 14:32

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.357	U	0.173	0.324
(T) Barium	*108*		*108*	
(T) Yttrium	*101*		*101*	

L1611854-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611854-01 05/19/23 14:32 • (DUP) R3929806-5 05/19/23 14:32

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.267	0.241	0.432	-0.527	0.396	0.432	1	200	1.71	U	20	3
(T) Barium	*109*			*114*	*114*							
(T) Yttrium	*90.0*			*116*	*116*							

Laboratory Control Sample (LCS)

(LCS) R3929806-2 05/19/23 14:32

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.97	99.4	80.0-120	
(T) Barium			*116*		
(T) Yttrium			*112*		

L1606733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1606733-01 05/19/23 14:32 • (MS) R3929806-3 05/19/23 14:32 • (MSD) R3929806-4 05/19/23 14:32

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.855	10.4	10.0	95.1	91.7	1	70.0-130			3.34		20
(T) Barium		*121*			*120*	*116*							
(T) Yttrium		*108*			*111*	*98.4*							

Method Blank (MB)

(MB) R3927911-5 05/18/23 18:22

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-226	-0.0127	U	0.0290	0.0632
(T) Barium-133	*74.5*		*74.5*	

L1611860-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611860-01 05/18/23 18:05 • (DUP) R3927911-4 05/18/23 18:05

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.688	0.371	0.320	0.0912	0.205	0.320	1	153	1.41	U	20	3
(T) Barium-133	*85.0*			*87.1*	*87.1*							

Laboratory Control Sample (LCS)

(LCS) R3927911-1 05/18/23 18:05

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.13	102	80.0-120	
(T) Barium-133			*77.2*		

L1611860-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611860-07 05/18/23 18:05 • (MS) R3927911-2 05/18/23 18:05 • (MSD) R3927911-3 05/18/23 18:05

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0721	19.7	19.7	98.2	97.9	1	75.0-125			0.305		20
(T) Barium-133		*79.2*			*84.7*	*72.7*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

A133

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

GD04486 **Workorder Name:** VISTRA - NEWTON **Owner Received Date:** 4/26/2023 **Results Requ By:** 5/15/2023

Report To:	Subcontract To:
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	APW03	GRAB	4/25/2023 13:20	GD04486-01	GW		X	X	-01
2	APW04	GRAB	4/25/2023 16:42	GD04486-02	GW		X	X	-02
3	APW16	GRAB	4/25/2023 13:26	GD04486-03	GW		X	X	-03
4	APW17	GRAB	4/25/2023 16:50	GD04486-04	GW		X	X	-04
5	APW18	GRAB	4/25/2023 15:03	GD04486-05	GW		X	X	-05
6	EB-01	GRAB	4/25/2023 17:15	GD04486-06	DI		X	X	-06

LCD1854

Transfers		Date/Time	Received By	Date/Time	Comments
1	Camden Rennett	5-2-23 14:42	Hanby Pobinson	5/3/23 0900	Needs 226, 228 and combined Include QC summary and edd 10 day TAT
2					
3					

Cooler Temperature on Receipt _____ °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N
		Y	Y

HB 5/3

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

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

Sample Receipt Checklist

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

17.7+0=17.7 NS AG

6319 5997 8519

L1611854

Pace Analytical
www.pacelabs.com

Ship to :
Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet TN 37122

(615)758-5858

INTER_LABORATORY WORK ORDER # GD04486
(To be complete by sending lab)

Sending Project No:	GD04486
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

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

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of**	**Preservative**	**Quantity of**	**Unit Price**	**Amount**
Radium 226		6		6	$100.00	$600.00
Radium 228		6		6	$100.00	$600.00
		1		1		$0.00
					TOTAL	$1,200.00

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

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$1,200.00	$960.00	$240.00
* Custom Revenue Allocation		TOTAL	$960.00	$240.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

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

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

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT, PRIMARY ASH POND
NEW-257-501

ANALYTICAL REPORT

June 06, 2023

Pace IR - Peoria, IL

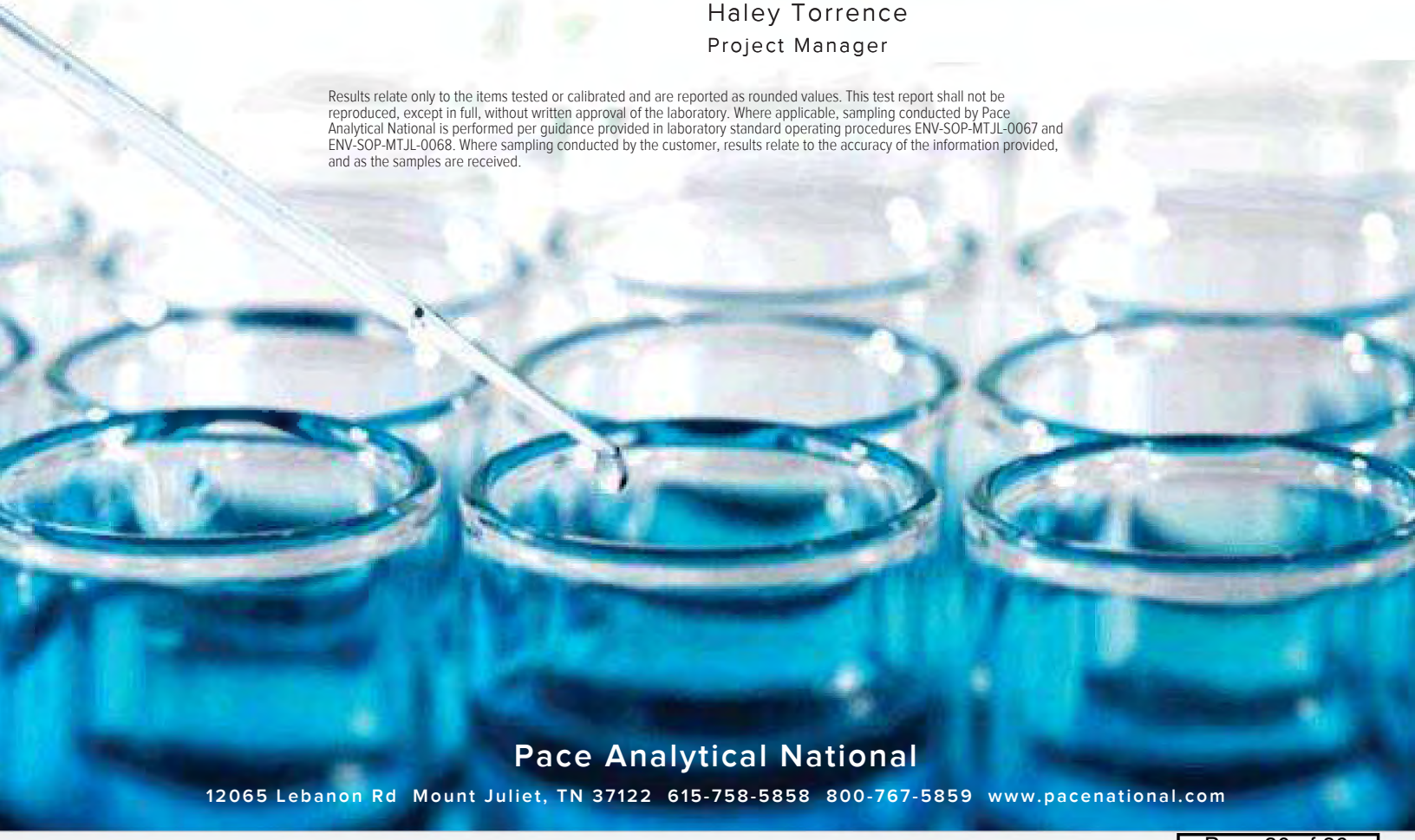
Sample Delivery Group:	L1611866
Samples Received:	05/03/2023
Project Number:	GD04770
Description:	Vistra-Newton
Site:	001
Report To:	Gail Schindler 2231 W. Altorfer Drive Peoria, IL 61615

Entire Report Reviewed By:

[Preliminary Report]

Haley Torrence
Project Manager

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



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

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SAMPLE SUMMARY

APW05S L1611866-01 Non-Potable Water

Collected by | Collected date/time 04/26/23 17:40 | Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW06 L1611866-02 Non-Potable Water

Collected by | Collected date/time 04/26/23 16:00 | Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RRE	Mt. Juliet, TN

APW08 L1611866-03 Non-Potable Water

Collected by | Collected date/time 04/26/23 12:11 | Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW11 L1611866-04 Non-Potable Water

Collected by | Collected date/time 04/26/23 15:43 | Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW12 L1611866-05 Non-Potable Water

Collected by | Collected date/time 04/26/23 13:56 | Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

APW15 L1611866-06 Non-Potable Water

Collected by | Collected date/time 04/26/23 17:23 | Received date/time 05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

EB-02 L1611866-07 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/26/23 16:30	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 13:18	RGT	Mt. Juliet, TN

CASE NARRATIVE

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

[Preliminary Report]

Haley Torrence
Project Manager

APW05S SAMPLE RESULTS - 01
Collected date/time: 04/26/23 17:40 L1611866

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-1.07	U	0.400	0.755	05/31/2023 08:55	WG2061735
(T) Barium	*80.2*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*88.7*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.141	U	0.430	0.784	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.141	J	0.159	0.210	05/24/2023 13:18	WG2058953
(T) Barium-133	*101*			*30.0-143*	*05/24/2023 13:18*	WG2058953

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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.574	J	0.336	0.595	05/31/2023 08:55	WG2061735
(T) Barium	*78.6*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*127*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.20		0.487	0.686	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.621		0.353	0.342	05/24/2023 13:18	WG2058953
(T) Barium-133	*96.0*			*30.0-143*	*05/24/2023 13:18*	WG2058953

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.337	J	0.293	0.524	05/31/2023 08:55	WG2061735
(T) Barium	*93.7*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*88.5*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.941		0.456	0.628	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.604		0.349	0.346	05/24/2023 13:18	WG2058953
(T) Barium-133	*84.4*			*30.0-143*	*05/24/2023 13:18*	WG2058953

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.64		0.303	0.496	05/31/2023 08:55	WG2061735
(T) Barium	*78.2*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*95.5*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.17		0.424	0.566	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.530		0.296	0.273	05/24/2023 13:18	WG2058953
(T) Barium-133	*101*			*30.0-143*	*05/24/2023 13:18*	WG2058953

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-1.05	U	0.345	0.659	05/31/2023 08:55	WG2061735
(T) Barium	*85.3*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*127*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.0586	U	0.369	0.697	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0586	U	0.131	0.226	05/24/2023 13:18	WG2058953
(T) Barium-133	*97.0*			*30.0-143*	*05/24/2023 13:18*	WG2058953

APW15 SAMPLE RESULTS - 06
Collected date/time: 04/26/23 17:23 L1611866

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.38		0.390	0.665	05/31/2023 08:55	WG2061735
(T) Barium	*78.6*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*83.7*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.97		0.488	0.696	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.586		0.294	0.207	05/24/2023 13:18	WG2058953
(T) Barium-133	*98.0*			*30.0-143*	*05/24/2023 13:18*	WG2058953

EB-02 SAMPLE RESULTS - 07
Collected date/time: 04/26/23 16:30 L1611866

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.0858	U	0.272	0.502	05/31/2023 08:55	WG2061735
(T) Barium	*82.0*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*139*	C1		*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.142	U	0.306	0.528	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.142	J	0.140	0.163	05/24/2023 13:18	WG2058953
(T) Barium-133	*100*			*30.0-143*	*05/24/2023 13:18*	WG2058953

Method Blank (MB)

(MB) R3932968-2 05/31/23 08:55

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.510		0.175	0.303
(T) Barium	*80.6*		*80.6*	
(T) Yttrium	*117*		*117*	

L1611866-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-05 05/31/23 08:55 • (DUP) R3932968-5 05/31/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-1.05	0.345	0.659	-1.23	0.448	0.659	1	0.000	0.313	U	20	3
(T) Barium	*85.3*			*81.0*	*81.0*							
(T) Yttrium	*127*			*143*	*143*					C1		

Laboratory Control Sample (LCS)

(LCS) R3932968-1 05/26/23 09:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.89	118	80.0-120	
(T) Barium			*94.2*		
(T) Yttrium			*74.8*		

L1607413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-01 05/31/23 08:55 • (MS) R3932968-3 05/31/23 08:55 • (MSD) R3932968-4 05/31/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	4.03	11.0	11.8	69.2	77.2	1	70.0-130	J6		7.05		20
(T) Barium		*80.5*			*88.9*	*84.4*							
(T) Yttrium		*87.6*			*117*	*116*							

Method Blank (MB)

(MB) R3929001-1 05/24/23 00:32

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-226	-0.0131	U	0.0300	0.0654
(T) Barium-133	*72.0*		*72.0*	

L1611866-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-07 05/24/23 13:18 • (DUP) R3929001-5 05/24/23 13:18

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.142	0.140	0.163	0.130	0.254	0.163	1	8.91	0.0417	U	20	3
(T) Barium-133	*100*			*83.2*	*83.2*							

Laboratory Control Sample (LCS)

(LCS) R3929001-2 05/24/23 13:18

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.10	102	80.0-120	
(T) Barium-133			*94.0*		

L1611864-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611864-01 05/24/23 00:32 • (MS) R3929001-3 05/24/23 13:18 • (MSD) R3929001-4 05/24/23 13:18

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.153	19.5	18.2	96.6	90.2	1	75.0-125			6.74		20
(T) Barium-133		*99.5*			*97.5*	*94.4*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier / Description

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Internal Transfer Chain of Custody

Pace Analytical
A130

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

GD04770 Workorder Name: VISTRA - NEWTON

Owner Received Date: 4/27/2023

Results Requ By: 5/15/2023

Report To:	Subcontract To:
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	APW05s	GRAB	4/26/2023 17:40	GD04770-01	GW		X	X	-01
2	APW06	GRAB	4/26/2023 16:00	GD04770-02	GW		X	X	-02
3	APW08	GRAB	4/26/2023 12:11	GD04770-03	GW		X	X	-03
4	APW11	GRAB	4/26/2023 15:43	GD04770-04	GW		X	X	-04
5	APW12	GRAB	4/26/2023 13:56	GD04770-05	GW		X	X	-05
6	APW15	GRAB	4/26/2023 17:23	GD04770-06	GW		X	X	-06
7	EB-02	GRAB	4/26/2023 16:30	GD04770-07	DI		X	X	-07

L611846

Transfers	3/14/2023 14:31	Date/Time	Received By	Date/Time	Comments
1	Carden Bennett	5-2-23 14:42	Hayley Barker	5/3/23 0900	Needs 226, 228 and combined Include QC summary and edd 10 day TAT
2					
3					

Cooler Temperature on Receipt _____ °C | Custody Seal Y or N | Received on Ice Y or N | Sample Intact Y or N

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

Sample Receipt Checklist

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

18.8 ± 0 = 18.8 NS AT

6319 5997 8493

L16118Cd

Pace Analytical
www.pacelabs.com

Ship to :
Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet TN 37122

(615)758-5858

INTER_LABORATORY WORK ORDER # GD04770
(To be complete by sending lab)

Sending Project No:	GD04770
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

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

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of**	**Preservative**	**Quantity of**	**Unit Price**	**Amount**
Radium 226		7		7	$100.00	$700.00
Radium 228		7		7	$100.00	$700.00
		1		1		$0.00
					TOTAL	$1,400.00

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

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$1,400.00	$1,120.00	$280.00
* Custom Revenue Allocation		TOTAL	$1,120.00	$280.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

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

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

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT, PRIMARY ASH POND
NEW-257-501

ANALYTICAL REPORT

May 26, 2023

Pace IR - Peoria, IL

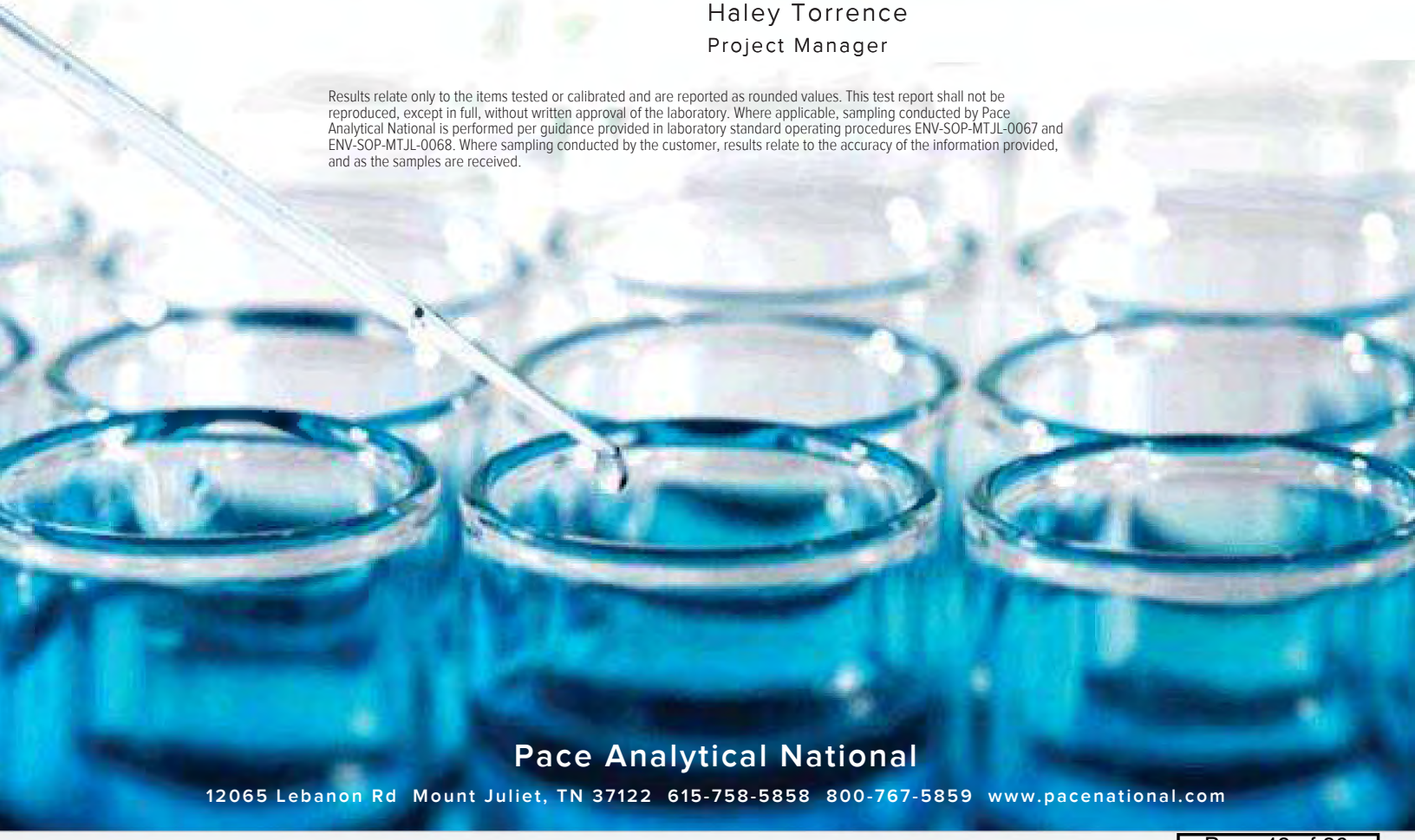
Sample Delivery Group:	L1611860
Samples Received:	05/03/2023
Project Number:	GD04853
Description:	Vistra-Newton
Site:	001
Report To:	Gail Schindler 2231 W. Altorfer Drive Peoria, IL 61615

Entire Report Reviewed By:

[Preliminary Report]

Haley Torrence
Project Manager

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



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

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SAMPLE SUMMARY

APW02 L1611860-01 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/27/23 12:17	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW05 L1611860-02 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/27/23 12:40	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW07 L1611860-03 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/27/23 10:35	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW09 L1611860-04 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/27/23 14:05	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW10 L1611860-05 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/27/23 15:47	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

APW13 L1611860-06 Non-Potable Water

	Collected by	Collected date/time	Received date/time
		04/27/23 17:16	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

	Collected by	Collected date/time	Received date/time
EB-03 L1611860-07 Non-Potable Water		04/27/23 14:35	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058951	1	05/17/23 16:27	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058951	1	05/17/23 16:27	05/18/23 18:05	RGT	Mt. Juliet, TN

CASE NARRATIVE

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

[Preliminary Report]

Haley Torrence
Project Manager

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.0802	U	0.245	0.448	05/19/2023 14:32	WG2061003
(T) Barium	*106*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*127*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.768		0.445	0.551	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.688		0.371	0.320	05/18/2023 18:05	WG2058951
(T) Barium-133	*85.0*			*30.0-143*	*05/18/2023 18:05*	WG2058951

APW05 SAMPLE RESULTS - 02
Collected date/time: 04/27/23 13:40 L1611860

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.606		0.211	0.365	05/19/2023 14:32	WG2061003
(T) Barium	*118*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*114*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.841		0.314	0.471	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.236	J	0.233	0.298	05/18/2023 18:05	WG2058951
(T) Barium-133	*99.0*			*30.0-143*	*05/18/2023 18:05*	WG2058951

APW07 SAMPLE RESULTS - 03
Collected date/time: 04/27/23 10:35 L1611860

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.07		0.274	0.467	05/19/2023 14:32	WG2061003
(T) Barium	*110*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*109*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.09		0.488	0.546	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	1.02		0.404	0.282	05/18/2023 18:05	WG2058951
(T) Barium-133	*91.3*			*30.0-143*	*05/18/2023 18:05*	WG2058951

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

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.920		0.237	0.402	05/19/2023 14:32	WG2061003
(T) Barium	*125*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*119*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	2.00		0.465	0.449	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	1.08		0.400	0.199	05/18/2023 18:05	WG2058951
(T) Barium-133	*96.8*			*30.0-143*	*05/18/2023 18:05*	WG2058951

APW10 SAMPLE RESULTS - 05
Collected date/time: 04/27/23 15:47 L1611860

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.384	U	0.250	0.469	05/19/2023 14:32	WG2061003
(T) Barium	*108*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*107*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.316	J	0.360	0.562	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.316		0.259	0.310	05/18/2023 18:05	WG2058951
(T) Barium-133	*92.1*			*30.0-143*	*05/18/2023 18:05*	WG2058951

APW13 SAMPLE RESULTS - 06

Collected date/time: 04/27/23 17:16 L1611860

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.413	J	0.242	0.430	05/19/2023 14:32	WG2061003
(T) Barium	*95.4*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*111*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.651		0.314	0.485	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.238		0.200	0.225	05/18/2023 18:05	WG2058951
(T) Barium-133	*83.9*			*30.0-143*	*05/18/2023 18:05*	WG2058951

EB-03 SAMPLE RESULTS - 07
Collected date/time: 04/27/23 14:35 L1611860

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.346	J	0.218	0.389	05/19/2023 14:32	WG2061003
(T) Barium	*116*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*113*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.418	J	0.292	0.513	05/19/2023 14:32	WG2058951

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.0721	U	0.195	0.334	05/18/2023 18:05	WG2058951
(T) Barium-133	*79.2*			*30.0-143*	*05/18/2023 18:05*	WG2058951

WG2061003 QUALITY CONTROL SUMMARY

Radiochemistry by Method 9041/9320 L1611860-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3929806-1 05/19/23 14:32

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.357	U	0.173	0.324
(T) Barium	*108*		*108*	
(T) Yttrium	*101*		*101*	

L1611854-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611854-01 05/19/23 14:32 • (DUP) R3929806-5 05/19/23 14:32

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.267	0.241	0.432	-0.527	0.396	0.432	1	200	1.71	U	20	3
(T) Barium	*109*			*114*	*114*							
(T) Yttrium	*90.0*			*116*	*116*							

Laboratory Control Sample (LCS)

(LCS) R3929806-2 05/19/23 14:32

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.97	99.4	80.0-120	
(T) Barium			*116*		
(T) Yttrium			*112*		

L1606733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1606733-01 05/19/23 14:32 • (MS) R3929806-3 05/19/23 14:32 • (MSD) R3929806-4 05/19/23 14:32

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.855	10.4	10.0	95.1	91.7	1	70.0-130			3.34		20
(T) Barium		*121*			*120*	*116*							
(T) Yttrium		*108*			*111*	*98.4*							

Method Blank (MB)

(MB) R3927911-5 05/18/23 18:22

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-226	-0.0127	U	0.0290	0.0632
(T) Barium-133	*74.5*		*74.5*	

L1611860-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611860-01 05/18/23 18:05 • (DUP) R3927911-4 05/18/23 18:05

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.688	0.371	0.320	0.0912	0.205	0.320	1	153	1.41	U	20	3
(T) Barium-133	*85.0*			*87.1*	*87.1*							

Laboratory Control Sample (LCS)

(LCS) R3927911-1 05/18/23 18:05

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.13	102	80.0-120	
(T) Barium-133			*77.2*		

L1611860-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611860-07 05/18/23 18:05 • (MS) R3927911-2 05/18/23 18:05 • (MSD) R3927911-3 05/18/23 18:05

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0721	19.7	19.7	98.2	97.9	1	75.0-125			0.305		20
(T) Barium-133		*79.2*			*84.7*	*72.7*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

A132

Internal Transfer Chain of Custody

Pace Analytical
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

Owner Received Date: 4/28/2023
Results Requ By: 5/15/2023

GD04853 Workorder Name: VISTRA - NEWTON

Report To:	Subcontract To:
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	APW02	GRAB	4/27/2023 12:17	GD04853-01	GW		X	X	-01
2	APW05	GRAB	4/27/2023 12:40	GD04853-02	GW		X	X	-02
3	APW07	GRAB	4/27/2023 10:35	GD04853-03	GW		X	X	-03
4	APW09	GRAB	4/27/2023 14:05	GD04853-04	GW		X	X	-04
5	APW10	GRAB	4/27/2023 15:47	GD04853-05	GW		X	X	-05
6	APW13	GRAB	4/27/2023 17:16	GD04853-06	GW		X	X	-06
7	EB-03	GRAB	4/27/2023 14:35	GD04853-07	DI		X	X	-07

U1d7660

Transfers	3/14/2023 14:31	Date/Time	Received By	Date/Time	Comments
1	Camden Bennett	5-2-23 14:42	Harley Balentine	5/3/23 0900	Needs 226, 228 and combined Include QC summary and edd 10 day TAT
2					
3					

Cooler Temperature on Receipt _____ °C | Custody Seal Y or N | Received on Ice Y or N | Sample Intact Y or N

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

Sample Receipt Checklist

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

16.5+0=16.5 NS A7

6319 5997 8530

L1618160

Pace Analytical
www.pacelabs.com

Ship to :
Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet TN 37122

(615)758-5858

INTER_LABORATORY WORK ORDER # GD4853
(To be complete by sending lab)

Sending Project No:	GD4853
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

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

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of**	**Preservative**	**Quantity of**	**Unit Price**	**Amount**
Radium 226		7		7	$100.00	$700.00
Radium 228		7		7	$100.00	$700.00
		1		1		$0.00
					TOTAL	$1,400.00

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

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$1,400.00	$1,120.00	$280.00
* Custom Revenue Allocation		TOTAL	$1,120.00	$280.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

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

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

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT, PRIMARY ASH POND
NEW-257-501

ANALYTICAL REPORT

June 06, 2023

Pace IR - Peoria, IL

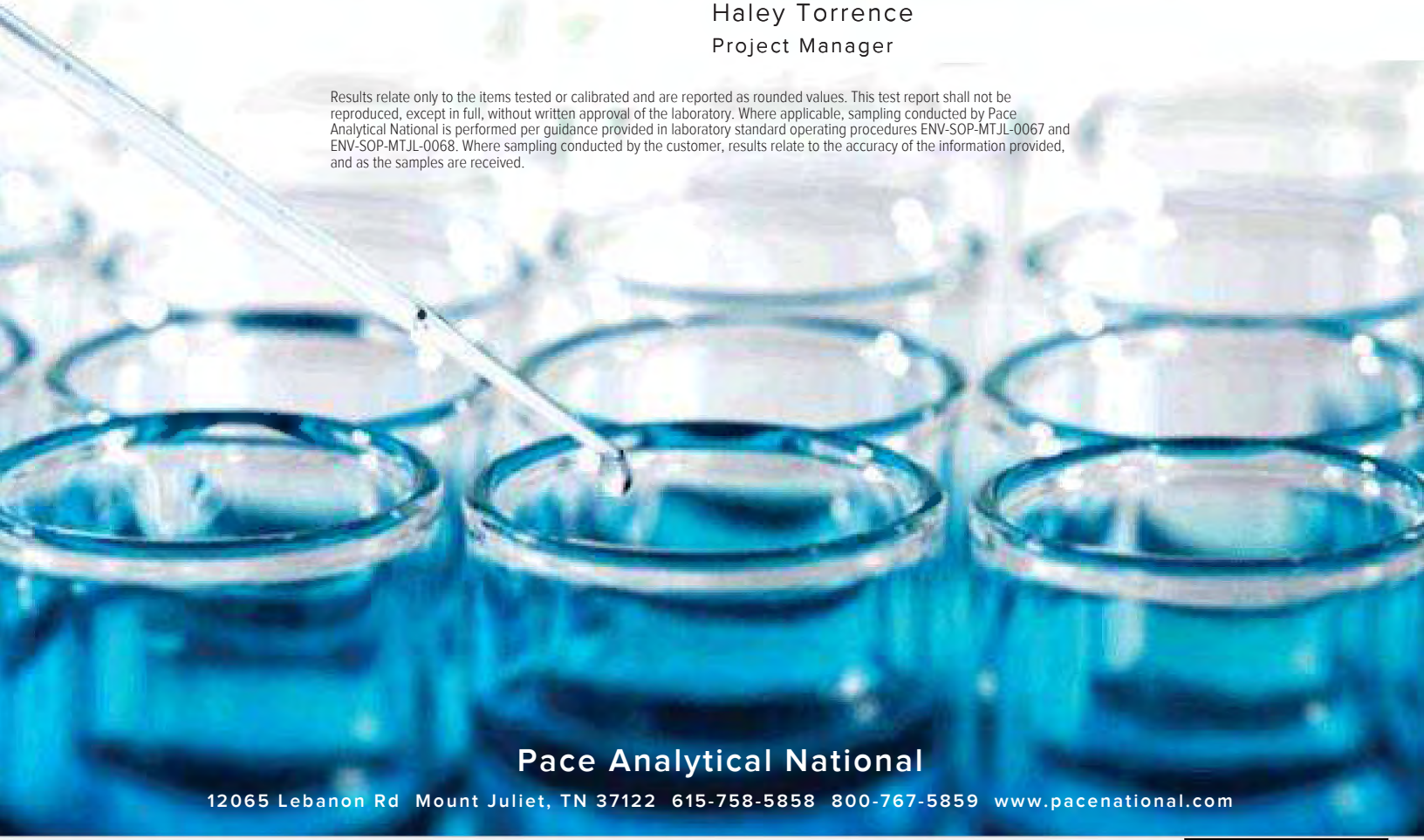
Sample Delivery Group:	L1611864
Samples Received:	05/03/2023
Project Number:	GD04926
Description:	Vistra-Newton
Site:	001
Report To:	Gail Schindler 2231 W. Altorfer Drive Peoria, IL 61615

Entire Report Reviewed By:

[Preliminary Report]

Haley Torrence
Project Manager

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



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

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SAMPLE SUMMARY

APW14 L1611864-01 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/28/23 11:29	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061003	1	05/16/23 23:23	05/19/23 14:32	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/24/23 00:32	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 00:32	RGT	Mt. Juliet, TN

APW14 DUP L1611864-02 Non-Potable Water

Collected by	Collected date/time	Received date/time
	04/28/23 11:29	05/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2061735	1	05/17/23 20:19	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2058953	1	05/22/23 11:11	05/31/23 08:55	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2058953	1	05/22/23 11:11	05/24/23 00:32	RGT	Mt. Juliet, TN

CASE NARRATIVE

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

[Preliminary Report]

Haley Torrence
Project Manager

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.228	J	0.217	0.391	05/19/2023 14:32	WG2061003
(T) Barium	*109*			*30.0-143*	*05/19/2023 14:32*	WG2061003
(T) Yttrium	*108*			*30.0-136*	*05/19/2023 14:32*	WG2061003

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	0.381	J	0.285	0.465	05/24/2023 00:32	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.153	J	0.184	0.252	05/24/2023 00:32	WG2058953
(T) Barium-133	*99.5*			*30.0-143*	*05/24/2023 00:32*	WG2058953

APW14 DUP SAMPLE RESULTS - 02
Collected date/time: 04/28/23 11:29 L1611864

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-228	1.28		0.291	0.489	05/31/2023 08:55	WG2061735
(T) Barium	*77.9*			*30.0-143*	*05/31/2023 08:55*	WG2061735
(T) Yttrium	*123*			*30.0-136*	*05/31/2023 08:55*	WG2061735

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
Combined Radium	1.71		0.417	0.584	05/31/2023 08:55	WG2058953

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch
RADIUM-226	0.433		0.299	0.319	05/24/2023 00:32	WG2058953
(T) Barium-133	*96.7*			*30.0-143*	*05/24/2023 00:32*	WG2058953

Radiochemistry by Method 9041/9320

Method Blank (MB)

(MB) R3929806-1 05/19/23 14:32

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	-0.357	U	0.173	0.324
(T) Barium	*108*		*108*	
(T) Yttrium	*101*		*101*	

L1611854-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1611854-01 05/19/23 14:32 • (DUP) R3929806-5 05/19/23 14:32

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.267	0.241	0.432	-0.527	0.396	0.432	1	200	1.71	U	20	3
(T) Barium	*109*			*114*	*114*							
(T) Yttrium	*90.0*			*116*	*116*							

Laboratory Control Sample (LCS)

(LCS) R3929806-2 05/19/23 14:32

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.97	99.4	80.0-120	
(T) Barium			*116*		
(T) Yttrium			*112*		

L1606733-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1606733-01 05/19/23 14:32 • (MS) R3929806-3 05/19/23 14:32 • (MSD) R3929806-4 05/19/23 14:32

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.855	10.4	10.0	95.1	91.7	1	70.0-130			3.34		20
(T) Barium		*121*			*120*	*116*							
(T) Yttrium		*108*			*111*	*98.4*							

WG2061755 QUALITY CONTROL SUMMARY

Radiochemistry by Method 904/9320 L1611864-02

Method Blank (MB)

(MB) R3932968-2 05/31/23 08:55

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-228	0.510		0.175	0.303
(T) Barium	*80.6*		*80.6*	
(T) Yttrium	*117*		*117*	

L1611866-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-05 05/31/23 08:55 • (DUP) R3932968-5 05/31/23 08:55

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-1.05	0.345	0.659	-1.23	0.448	0.659	1	0.000	0.313	U	20	3
(T) Barium	*85.3*			*81.0*	*81.0*							
(T) Yttrium	*127*			*143*	*143*					C1		

Laboratory Control Sample (LCS)

(LCS) R3932968-1 05/26/23 09:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.89	118	80.0-120	
(T) Barium			*94.2*		
(T) Yttrium			*74.8*		

L1607413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1607413-01 05/31/23 08:55 • (MS) R3932968-3 05/31/23 08:55 • (MSD) R3932968-4 05/31/23 08:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	4.03	11.0	11.8	69.2	77.2	1	70.0-130	J6		7.05		20
(T) Barium		*80.5*			*88.9*	*84.4*							
(T) Yttrium		*87.6*			*117*	*116*							

Radiochemistry by Method GM7500Ra B-M

Method Blank (MB)

(MB) R3929001-1 05/24/23 00:32

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / - pCi/l	MB MDA pCi/l
Radium-226	-0.0131	U	0.0300	0.0654
(T) Barium-133	*72.0*		*72.0*	

L1611866-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1611866-07 05/24/23 13:18 • (DUP) R3929001-5 05/24/23 13:18

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.142	0.140	0.163	0.130	0.254	0.163	1	8.91	0.0417	U	20	3
(T) Barium-133	*100*			*83.2*	*83.2*							

Laboratory Control Sample (LCS)

(LCS) R3929001-2 05/24/23 13:18

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.10	102	80.0-120	
(T) Barium-133			*94.0*		

L1611864-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1611864-01 05/24/23 00:32 • (MS) R3929001-3 05/24/23 13:18 • (MSD) R3929001-4 05/24/23 13:18

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.153	19.5	18.2	96.6	90.2	1	75.0-125			6.74		20
(T) Barium-133		*99.5*			*97.5*	*94.4*							

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

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

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

A131

Internal Transfer Chain of Custody

Pace Analytical
www.pacelabs.com

State of Origin: IL
Cert. Needed: [X] YES [ ] NO

GD04926 Workorder Name: VISTRA - NEWTON

Owner Received Date: 4/29/2023

Results Requ By: 5/15/2023

Report To:	Subcontract To:
Gail Schindler Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis: Radium 226	Requested Analysis: Radium 228	LAB USE ONLY
1	APW14	GRAB	4/28/2023 11:29	GD04926-01	GW		X	X	L1618604
2	APW14 DUP	GRAB	4/28/2023 11:29	GD04926-02	GW		X	X	

Transfers	3/14/2023 14:31	Date/Time	Received By	Date/Time	Comments
1	Camden Bennett	5-2-23 14:42	Hanley Ballard	5/3/23 0900	Needs 226, 228 and combined Include QC summary and edd 10 day TAT
2					
3					

Cooler Temperature on Receipt ____ °C	Custody Seal Y or N	Received on Ice Y or N	Sample Intact Y or N

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

Sample Receipt Checklist

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

18.8 ± 0 = 18.8 NS AT

6319 5997 8493

L1611864

Pace Analytical
www.pacelabs.com

Ship to :
Pace Analytical Services, LLC
12065 Lebanon Rd
Mt Juliet TN 37122

(615)758-5858

INTER_LABORATORY WORK ORDER # GD04926
(To be complete by sending lab)

Sending Project No:	GD04926
Receiving Project No:	
Check Box for Consolidated Invoice:	
Date Prepared:	5/2/2023
REQUESTED COMPLETION DATE:	5/15/2023

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

All questions should be addressed to sending project manager.

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

WORK REQUESTED						
Method Description	**Container Type**	**Quantity of**	**Preservative**	**Quantity of**	**Unit Price**	**Amount**
Radium 226		2		2	$100.00	$200.00
Radium 228		2		2	$100.00	$200.00
		1		1		$0.00
					TOTAL	$400.00

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

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	$400.00	$320.00	$80.00
* Custom Revenue Allocation		TOTAL	$320.00	$80.00

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: [ ] Yes [X] No

CONFIRMATION OF WORK COMPLETED

Date Completed: _____ Receiving Project Manager: _____

Original sent to the receiving lab - Copy kept at the sending lab.
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
NEWTON POWER PLANT, PRIMARY ASH POND
NEW-257-501

~~GD04467~~ Vmu
GD04486
Vmu 4-26-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_A213																								
2	NEW_A214																								
3	NEW_A215																								
4	NEW_APW02																								
5	NEW_APW03			4/25/23	1320		11	X	X	X															
6	NEW_APW04			4/25/23	1642		11	X	X	X															
7	NEW_APW05																								
8	NEW_APW05#S																								
9	NEW_APW06																								
10	NEW_APW07																								
11	NEW_APW08																								
12	NEW_APW09																								
13	NEW_APW10																								
14	NEW_APW11																								
15	NEW_APW12																								
16	NEW_APW13																								

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)
NEW-23Q2 Rev 0		4/26/23	0706		4-26-23	1020				
		4-26-23	1330		4-26-23	1330	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/25/23

~~4-26~~ ~~1020~~ EMS 5-3-23

GIS64486
VMW 4-26-23

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

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

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: NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW14																								
2	NEW_APW15																								
3	NEW_APW16			4/25/23	1326		22	X	X	X															
4	NEW_APW17			4/25/23	1650		11	X	X	X															
5	NEW_APW18			4/25/23	1503		11	X	X	X															
6	NEW_G104			4/26/23	1652		3	X	X	X		X													
7	NEW_G104#S DTW																								
8	NEW_G104&D																								
9	NEW_G105																								
10	NEW_G106			4/25/23	1131		4	X	X	X		X													
11	04/26/23 ~~NEW_G108~~ EB-01			4/25/23	1715																				
12	NEW_G109 DTW																								
13	NEW_G110 DTW																								
14	NEW_G111 DTW																								
15	NEW_G112 DTW																								
16	NEW_G113 DTW																								

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)
NEW-23Q2 Rev 0		4/26/23	0706		4-26-23	1020				
		4-26-23	1330		4-26-23	1330	1.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Robertson

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/25/2023

6D04746 gw

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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

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 ↓ NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_A213																									
2	NEW_A214																									
3	NEW_A215				4/26/23	1640		9	X	X	X	X	X													
4	NEW_APW02																									
5	NEW_APW03																									
6	NEW_APW04																									
7	NEW_APW05S 4/25-23 4/27-23				4/26/23	1740		11	X	X	X															
8	NEW_APW05#S																									
9	NEW_APW06				4/26/23	1600		11	X	X	X															
10	NEW_APW07																									
11	NEW_APW08				4/26/23	1211		11	X	X	X															
12	NEW_APW09																									
13	NEW_APW10																									
14	NEW_APW11				4/26/23	1543		11	X	X	X															
15	NEW_APW12				4/26/23	1356		11	X	X	X															
16	NEW_APW13																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q2 Rev 0		4/27/23	713		4-27	1030	5
		4-27	1426		4/27/23	14:20	0

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 4/26/23

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

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

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_APW14																								
2	NEW_APW15			4/26/23	1723		11	X	X	X															
3	NEW_APW16																								
4	NEW_APW17																								
5	NEW_APW18																								
6	NEW_G104																								
7	NEW_G104#S DTW																								
8	NEW_G104&D																								
9	NEW_G105																								
10	NEW_G106																								
11	NEW_G108																								
12	NEW_G109 DTW																								
13	NEW_G110 DTW																								
14	NEW_G111 DTW																								
15	NEW_G112 DTW																								
16	NEW_G113 DTW																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q2 Rev 0	Joseph R Reed	4/27/23	1030		4-27	1030
		4-27	1420		4/27/23	14:20

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER: James David

DATE Signed (MM/DD/YY): 4/26/23

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

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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_YSG02 DTW																								
2	NEW_YSW_S101			4/26/23	1803		9	X	X	X															
3	NEW_YSW_S102			4/26/23	1743		9	X	X	X															
4	4/26/23 EB-02			4/26/23	1630																				
5																									
6																									
7																									
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
NEW-23Q2 Rev 0	Josh R Rod	4/27/23	1030		4-27	1020	5
		4-27	1420	gracyfunk	4/27/23	14:20	0 Y 2 Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Davis

SIGNATURE of SAMPLER: James Davis

DATE Signed (MM/DD/YY): 4/26/23

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

courier

GDO4853-07 gef

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 6

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

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 ↓	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_A213	WT	G	4/27/23	1209		9	X	X	X	X	X														
2	NEW_A214	WT	G	4/27/23	1432		9	X	X	X	X	X														
3	NEW_A215																									
4	NEW_APW02	WT	G	4/27/23	1217		11	X	X	X																
5	NEW_APW03																									
6	NEW_APW04																									
7	NEW_APW05	WT	G	4/27/23	1240		11	X	X	X																
8	NEW_APW05#S																									
9	NEW_APW06																									
10	NEW_APW07	WT	G	4/27/23	1035		11	X	X	X																
11	NEW_APW08																									
12	NEW_APW09	WT	G	4/27/23	1405		11	X	X	X																
13	NEW_APW10	WT	G	4/27/23	1547		11	X	X	X																
14	NEW_APW11																									
15	NEW_APW12																									
16	NEW_APW13	WT	G	4/27/23	1716		11	X	X	X																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q2 Rev 0		4/28/23	0705		4/28/23	0705
		4/28/23	1245		4/28/23	12:45

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 04/27/2023

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:	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

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
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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	NEW_257_501	NEW_257_502	NEW_811_502	NEW_811_503	NEW_845_501	NEW_NPDES_501	NEW_SUP_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	NEW_LREP_leachate																								
2	NEW_MW34&D																								
3	NEW_MW35&D																								
4	NEW_MW43&D																								
5	NEW_MW46&D																								
6	NEW_R201																								
7	NEW_R202																								
8	NEW_R217&D																								
9	NEW_R219																								
10	NEW_T101	WT	G	4/27/23	1604		9	X	X	X															
11	NEW_T102																								
12	NEW_XPW01_pore	WT	G	4/27/23	1407		10	X	X	X															
13	NEW_XPW02_pore	WT	G	4/27/23	1529		10	X	X	X															
14	NEW_XPW03_pore	WT	G	4/27/23	1700		10	X	X	X															
15	~~NEW_XPW04_pore~~ EB-03	WT	G	4/27/23	1435		10	X	X	X															
16	NEW_XSG01 - DTW																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q2 Rev 0		4/28/23	0705		4/28/23	0705	
		4/28/23	1245		4/28/23	1245	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 04/27/23					

GD04926

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
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WATER	WT
WASTE WATER	WW
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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)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	Analysis Test (Y/N)															NEW_257_501		
																NEW_257_502		
																NEW_811_502		
																NEW_811_503		
																NEW_845_501		
																NEW_NPDES_501		
																NEW_SUP_000		
1	GS 5-2-23 NEW_APW14 + dup	WT	G	4/28/23	1129		22											
2	NEW_APW15																	
3	NEW_APW16																	
4	NEW_APW17																	
5	NEW_APW18																	
6	NEW_G104																	
7	NEW_G104#S DTW																	
8	NEW_G104&D																	
9	NEW_G105																	
10	NEW_G106																	
11	NEW_G108																	
12	NEW_G109 DTW																	
13	NEW_G110 DTW																	
14	NEW_G111 DTW																	
15	NEW_G112 DTW																	
16	NEW_G113 DTW																	

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)
NEW-23Q2 Rev 0	Joseph R Reed	4/28/23	1612				4	Y	2	Y
					4/28/23	16:12				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 4/28/23

Teklab, Inc.
Environmental Laboratory

http://www.teklabinc.com/

November 09, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NEW-23Q3 **WorkOrder:** 23070389

Dear Eric Bauer:

TEKLAB, INC received 26 samples for NEW_257_501 on 8/17/2023 2:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR.All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	52
Dates Report	53
Quality Control Results	83
Receiving Check List	191
Chain of Custody	Appended

Definitions

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Teklab, Inc. Environmental Laboratory

Case Narrative

Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23

Cooler Receipt Temp: 3.8 °C

An employee of Teklab, Inc. collected the sample(s).

Lab conductivity will be reported for APW02, APW03, APW04, APW05S, APW07, APW08, APW09, APW10, APW13, APW14, APW17, G104, G106, G118, G139, G141, G201, G208, G217S, G221, G225, R217D, R219 and applicable field duplicates due to field meter malfunction(s). JC/EAH 8/2/23

A215, G06D, G105, G202, G230, and MW46D could not be collected; the wells were dry. G108 could not be collected; the well was abandoned. L301 could not be collected; the well was inoperable. EAH 8/2/23

Depth, only, wells will be reported with collection dates/times per the field file. G118 will be reported as collected at 0726 per the field file. EAH 8/4/23

Per Eric Bauer, include total Iron for G201, G223, and G224 and include total and dissolved Iron for G231, G232, and G233. (ehurley - 8/10/2023 7:54:42 AM)

G104D and G223 collection times will be reported per the field file(s) rather than the chain of custody forms. EAH 8/16/23

A214, G116, G231, G232, MW35D, and APW02 (and its field duplicate) required resampling due to field meter errors. The resamples will be included in the final report(s). MW35D was dry at resampling. EAH 8/18/23

Per Eric Bauer's request, on NEW_257_501 data is included in this report. EAH 11/9/23

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-006 **Client Sample ID:** APW03

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 13:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**8.47**	ft	1	07/31/2023 13:47	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**5.6**	NTU	1	07/31/2023 13:47	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**64**	mV	1	07/31/2023 13:47	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.5**	°C	1	07/31/2023 13:47	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.75**	mg/L	1	07/31/2023 13:47	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.79**		1	07/31/2023 13:47	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**446**	mg/L	1	08/01/2023 13:40	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 13:40	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**620**	mg/L	1	08/02/2023 9:32	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**118**	mg/L	10	08/04/2023 14:05	R334639
SW-846 9050A									
Conductivity	NELAP	10	10		**918**	µmhos/cm @25C	1	08/09/2023 10:19	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.23**	mg/L	1	08/02/2023 12:49	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**10**	mg/L	1	08/03/2023 19:38	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**96.5**	mg/L	1	08/02/2023 11:24	210259
Magnesium	NELAP	0.0055	0.0500		**54.3**	mg/L	1	08/02/2023 11:24	210259
Potassium	NELAP	0.0400	0.100		**0.602**	mg/L	1	08/02/2023 11:24	210259
Sodium	NELAP	0.0180	0.0500		**56.2**	mg/L	1	08/02/2023 11:24	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 10:03	210259
Arsenic	NELAP	0.0004	0.0010	J	**0.0007**	mg/L	5	09/16/2023 13:10	210259
Barium	NELAP	0.0007	0.0010		**0.0942**	mg/L	5	09/16/2023 13:10	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:10	210259
Boron	NELAP	0.0092	0.0250		**0.538**	mg/L	5	09/16/2023 13:10	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:10	210259
Chromium	NELAP	0.0007	0.0015	J	**0.0014**	mg/L	5	09/16/2023 13:10	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0003**	mg/L	5	08/04/2023 10:03	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:10	210259
Lithium	*	0.0015	0.0030		**0.0139**	mg/L	5	08/04/2023 10:03	210259
Molybdenum	*	0.0006	0.0015	J	**0.0013**	mg/L	5	09/16/2023 13:10	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 10:03	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 10:03	210259

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-006 **Client Sample ID:** APW03

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 13:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:04	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-007 **Client Sample ID:** APW04

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 11:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**5.93**	ft	1	07/31/2023 11:53	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.0**	NTU	1	07/31/2023 11:53	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**92**	mV	1	07/31/2023 11:53	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.9**	°C	1	07/31/2023 11:53	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.68**	mg/L	1	07/31/2023 11:53	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.59**		1	07/31/2023 11:53	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**511**	mg/L	1	08/01/2023 13:47	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 13:47	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1770**	mg/L	1	08/02/2023 10:47	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		**808**	mg/L	50	08/04/2023 14:31	R334639
SW-846 9050A									
Conductivity	NELAP	10	10		**1950**	umhos/cm @25C	1	08/09/2023 10:22	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.18**	mg/L	1	08/02/2023 12:51	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**36**	mg/L	1	08/03/2023 20:15	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**211**	mg/L	1	08/02/2023 11:25	210259
Magnesium	NELAP	0.0055	0.0500		**174**	mg/L	1	08/02/2023 11:25	210259
Potassium	NELAP	0.0400	0.100		**1.72**	mg/L	1	08/02/2023 11:25	210259
Sodium	NELAP	0.0180	0.0500		**90.6**	mg/L	1	08/02/2023 11:25	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	**0.0005**	mg/L	5	08/04/2023 12:20	210259
Arsenic	NELAP	0.0004	0.0010	J	**0.0009**	mg/L	5	09/16/2023 13:15	210259
Barium	NELAP	0.0007	0.0010		**0.0247**	mg/L	5	09/16/2023 13:15	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:15	210259
Boron	NELAP	0.0092	0.0250		**0.0402**	mg/L	5	09/16/2023 13:15	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:15	210259
Chromium	NELAP	0.0007	0.0015		**0.0121**	mg/L	5	09/16/2023 13:15	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0006**	mg/L	5	08/04/2023 12:20	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:15	210259
Lithium	*	0.0015	0.0030		**0.0225**	mg/L	5	08/04/2023 12:20	210259
Molybdenum	*	0.0006	0.0015	J	**0.0014**	mg/L	5	09/16/2023 13:15	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 12:20	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 12:20	210259

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-007 **Client Sample ID:** APW04

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 11:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:11	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-008 **Client Sample ID:** APW05

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 13:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**14.34**	ft	1	07/24/2023 13:52	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**14**	NTU	1	07/24/2023 13:52	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-88**	mV	1	07/24/2023 13:52	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1030**	µS/cm	1	07/24/2023 13:52	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.6**	°C	1	07/24/2023 13:52	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.36**	mg/L	1	07/24/2023 13:52	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**8.02**		1	07/24/2023 13:52	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**474**	mg/L	1	07/26/2023 10:36	R333138
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/26/2023 10:36	R333138
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**550**	mg/L	2.5	07/26/2023 9:18	R333199
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**10**	mg/L	1	07/27/2023 17:21	R333276
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.48**	mg/L	1	07/26/2023 12:13	R333087
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**46**	mg/L	1	07/27/2023 17:22	R333281
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**50.4**	mg/L	1	07/26/2023 14:00	209945
Magnesium	NELAP	0.0060	0.0500		**25.4**	mg/L	1	07/26/2023 14:00	209945
Potassium	NELAP	0.0400	0.100		**1.55**	mg/L	1	07/26/2023 14:00	209945
Sodium	NELAP	0.0180	0.0500		**128**	mg/L	1	07/26/2023 14:00	209945
Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/02/2023 0:22	209945
Arsenic	NELAP	0.0004	0.0010		**0.0293**	mg/L	5	09/16/2023 15:53	209945
Barium	NELAP	0.0007	0.0010		**0.312**	mg/L	5	09/16/2023 15:53	209945
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 15:53	209945
Boron	NELAP	0.0092	0.0250		**0.108**	mg/L	5	09/16/2023 15:53	209945
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 15:53	209945
Chromium	NELAP	0.0007	0.0015	J	**0.0013**	mg/L	5	09/16/2023 15:53	209945
Cobalt	NELAP	0.0001	0.0010	J	**0.0003**	mg/L	5	08/02/2023 0:22	209945
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 15:53	209945
Lithium	*	0.0015	0.0030		**0.0088**	mg/L	5	08/02/2023 0:22	209945
Molybdenum	*	0.0006	0.0015		**0.0114**	mg/L	5	09/16/2023 15:53	209945
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 0:22	209945
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/02/2023 0:22	209945

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-008 **Client Sample ID:** APW05

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 13:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	07/26/2023 14:59	209946

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-009 **Client Sample ID:** APW05S

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**13.59**	ft	1	07/25/2023 12:53	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**50**	NTU	1	07/25/2023 12:53	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**36**	mV	1	07/25/2023 12:53	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**19.5**	°C	1	07/25/2023 12:53	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.31**	mg/L	1	07/25/2023 12:53	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.88**		1	07/25/2023 12:53	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**541**	mg/L	1	07/27/2023 10:08	R333225
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/27/2023 10:08	R333225
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**3200**	mg/L	2.5	07/27/2023 9:28	R333268
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		**1790**	mg/L	50	08/03/2023 17:02	R334559
SW-846 9050A									
Conductivity	NELAP	10	10		**3530**	µmhos/cm @25C	1	08/09/2023 10:42	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.41**	mg/L	1	07/27/2023 9:44	R333194
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**123**	mg/L	10	08/01/2023 0:09	R334401
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**355**	mg/L	1	08/01/2023 18:05	210094
Magnesium	NELAP	0.0055	0.0500		**282**	mg/L	1	08/01/2023 18:05	210094
Potassium	NELAP	0.0400	0.100		**2.17**	mg/L	1	08/01/2023 18:05	210094
Sodium	NELAP	0.0180	0.0500		**257**	mg/L	1	08/01/2023 18:05	210094
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:37	210094
Arsenic	NELAP	0.0004	0.0010	J	**0.0009**	mg/L	5	07/29/2023 9:37	210094
Barium	NELAP	0.0007	0.0010		**0.0328**	mg/L	5	07/29/2023 9:37	210094
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:08	210094
Boron	NELAP	0.0092	0.0250		**0.209**	mg/L	5	07/31/2023 16:08	210094
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:37	210094
Chromium	NELAP	0.0007	0.0015	J	**0.0011**	mg/L	5	07/31/2023 16:08	210094
Cobalt	NELAP	0.0001	0.0010		**0.0020**	mg/L	5	07/31/2023 16:08	210094
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:37	210094
Lithium	*	0.0015	0.0030		**0.0350**	mg/L	5	08/02/2023 3:47	210094
Molybdenum	*	0.0006	0.0015	J	**0.0013**	mg/L	5	07/29/2023 9:37	210094
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 3:47	210094
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	07/29/2023 9:37	210094

Sample result for Mn exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

CCV recovered outside the upper control limits for TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-009 **Client Sample ID:** APW05S

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/03/2023 11:28	210305

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-010 **Client Sample ID:** APW06

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 12:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**19.50**	ft	1	07/25/2023 12:22	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**18**	NTU	1	07/25/2023 12:22	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**22**	mV	1	07/25/2023 12:22	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**647**	µS/cm	1	07/25/2023 12:22	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.5**	°C	1	07/25/2023 12:22	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.39**	mg/L	1	07/25/2023 12:22	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.70**		1	07/25/2023 12:22	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**456**	mg/L	1	07/27/2023 10:16	R333225
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/27/2023 10:16	R333225
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**540**	mg/L	2.5	07/27/2023 9:28	R333268
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**17**	mg/L	1	08/02/2023 21:00	R334506
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.58**	mg/L	1	07/27/2023 9:46	R333194
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**24**	mg/L	1	08/02/2023 21:00	R334538
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	**53.7**	mg/L	1	08/01/2023 18:06	210094
Magnesium	NELAP	0.0055	0.0500		**24.7**	mg/L	1	08/01/2023 18:06	210094
Potassium	NELAP	0.0400	0.100		**1.42**	mg/L	1	08/01/2023 18:06	210094
Sodium	NELAP	0.0180	0.0500	S	**115**	mg/L	1	08/01/2023 18:06	210094
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:40	210094
Arsenic	NELAP	0.0004	0.0010		**0.0047**	mg/L	5	09/15/2023 23:08	210307
Barium	NELAP	0.0007	0.0010		**0.254**	mg/L	5	09/15/2023 23:08	210307
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:40	210094
Boron	NELAP	0.0092	0.0250	S	**0.605**	mg/L	5	08/02/2023 2:30	210094
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:40	210094
Chromium	NELAP	0.0007	0.0015	J	**0.0009**	mg/L	5	07/31/2023 16:40	210094
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	07/31/2023 16:40	210094
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:40	210094
Lithium	*	0.0015	0.0030		**0.0096**	mg/L	5	08/04/2023 8:16	210307
Molybdenum	*	0.0006	0.0015		**0.0071**	mg/L	5	09/15/2023 23:08	210307
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 2:30	210094
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	07/31/2023 16:40	210094
Matrix spike control limits are not applicable due to high sample/spike ratio.									

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-010 **Client Sample ID:** APW06

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 12:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00013**	mg/L	1	08/03/2023 11:30	210305

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-011 **Client Sample ID:** APW07

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 10:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**47.33**	ft	1	07/25/2023 10:10	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**390**	NTU	1	07/25/2023 10:10	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**33**	mV	1	07/25/2023 10:10	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.8**	°C	1	07/25/2023 10:10	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**9.50**	mg/L	1	07/25/2023 10:10	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.35**		1	07/25/2023 10:10	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**493**	mg/L	1	07/27/2023 10:24	R333225
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/27/2023 10:24	R333225
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**605**	mg/L	2.5	07/27/2023 9:28	R333268
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**23**	mg/L	1	08/02/2023 21:07	R334506
SW-846 9050A									
Conductivity	NELAP	10	10		**998**	umhos/cm @25C	1	08/09/2023 10:04	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.43**	mg/L	1	07/27/2023 9:47	R333194
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**62**	mg/L	10	08/02/2023 21:14	R334538
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**90.4**	mg/L	1	08/01/2023 18:08	210094
Magnesium	NELAP	0.0055	0.0500		**34.8**	mg/L	1	08/01/2023 18:08	210094
Potassium	NELAP	0.0400	0.100		**1.76**	mg/L	1	08/01/2023 18:08	210094
Sodium	NELAP	0.0180	0.0500		**91.2**	mg/L	1	08/01/2023 18:08	210094
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:43	210094
Arsenic	NELAP	0.0004	0.0010		**0.0146**	mg/L	5	07/29/2023 9:43	210094
Barium	NELAP	0.0007	0.0010		**0.519**	mg/L	5	07/29/2023 9:43	210094
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:14	210094
Boron	NELAP	0.0092	0.0250		**0.144**	mg/L	5	07/31/2023 16:14	210094
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:43	210094
Chromium	NELAP	0.0007	0.0015	J	**0.0015**	mg/L	5	07/31/2023 16:14	210094
Cobalt	NELAP	0.0001	0.0010	J	**0.0004**	mg/L	5	07/31/2023 16:14	210094
Lead	NELAP	0.0006	0.0010	J	**0.0007**	mg/L	5	07/29/2023 9:43	210094
Lithium	*	0.0015	0.0030		**0.0034**	mg/L	5	08/02/2023 3:53	210094
Molybdenum	*	0.0006	0.0015		**0.0020**	mg/L	5	07/29/2023 9:43	210094
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 3:53	210094
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	07/29/2023 9:43	210094

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-011 **Client Sample ID:** APW07

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 10:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Mn was detected in the MBLK at a level above the MDL and the RL. Sample result showed a low level of Mn. Sample results may be biased high by detectable levels in the MBLK. Sample is consumed.									
CCV recovered outside the upper control limits for TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/03/2023 11:32	210305

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-012 **Client Sample ID:** APW08

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 15:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**38.33**	ft	1	07/31/2023 15:09	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**11**	NTU	1	07/31/2023 15:09	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**94**	mV	1	07/31/2023 15:09	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.5**	°C	1	07/31/2023 15:09	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.95**	mg/L	1	07/31/2023 15:09	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.08**		1	07/31/2023 15:09	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**505**	mg/L	1	08/01/2023 13:54	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 13:54	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**600**	mg/L	2.5	08/02/2023 10:47	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**53**	mg/L	2	08/04/2023 14:35	R334639
SW-846 9050A									
Conductivity	NELAP	10	10		**1050**	umhos/cm @25C	1	08/09/2023 10:14	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.44**	mg/L	1	08/02/2023 12:54	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**56**	mg/L	10	08/03/2023 20:29	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**102**	mg/L	1	08/02/2023 11:26	210259
Magnesium	NELAP	0.0055	0.0500		**42.9**	mg/L	1	08/02/2023 11:26	210259
Potassium	NELAP	0.0400	0.100		**1.99**	mg/L	1	08/02/2023 11:26	210259
Sodium	NELAP	0.0180	0.0500		**85.2**	mg/L	1	08/02/2023 11:26	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 14:43	210259
Arsenic	NELAP	0.0004	0.0010		**0.0308**	mg/L	5	09/16/2023 13:21	210259
Barium	NELAP	0.0007	0.0010		**0.651**	mg/L	5	09/16/2023 13:21	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:21	210259
Boron	NELAP	0.0092	0.0250		**0.114**	mg/L	5	09/16/2023 13:21	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:21	210259
Chromium	NELAP	0.0007	0.0015		**0.0018**	mg/L	5	09/16/2023 13:21	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0005**	mg/L	5	08/04/2023 14:43	210259
Lead	NELAP	0.0006	0.0010	J	**0.0007**	mg/L	5	09/16/2023 13:21	210259
Lithium	*	0.0015	0.0030	J	**0.0027**	mg/L	5	08/04/2023 14:43	210259
Molybdenum	*	0.0006	0.0015		**0.0052**	mg/L	5	09/16/2023 13:21	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 14:43	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 14:43	210259

CCV recovered outside the upper control limits for Li. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-012 **Client Sample ID:** APW08

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 15:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:13	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-013 **Client Sample ID:** APW09

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 13:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**27.85**	ft	1	07/31/2023 13:32	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**5.0**	NTU	1	07/31/2023 13:32	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**91**	mV	1	07/31/2023 13:32	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.9**	°C	1	07/31/2023 13:32	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.47**	mg/L	1	07/31/2023 13:32	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.20**		1	07/31/2023 13:32	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**617**	mg/L	1	08/01/2023 14:01	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 14:01	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**805**	mg/L	2.5	08/02/2023 10:47	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**19**	mg/L	1	08/03/2023 20:30	R334559
SW-846 9050A									
Conductivity	NELAP	10	10		**1360**	µmhos/cm @25C	1	08/09/2023 10:08	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.50**	mg/L	1	08/02/2023 12:56	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**134**	mg/L	10	08/03/2023 20:37	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**78.4**	mg/L	1	08/02/2023 11:26	210259
Magnesium	NELAP	0.0055	0.0500		**39.3**	mg/L	1	08/02/2023 11:26	210259
Potassium	NELAP	0.0400	0.100		**1.83**	mg/L	1	08/02/2023 11:26	210259
Sodium	NELAP	0.0180	0.0500		**191**	mg/L	1	08/02/2023 11:26	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	**0.0007**	mg/L	5	08/04/2023 12:08	210259
Arsenic	NELAP	0.0004	0.0010		**0.0355**	mg/L	5	09/16/2023 13:26	210259
Barium	NELAP	0.0007	0.0010		**0.564**	mg/L	5	09/16/2023 13:26	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:26	210259
Boron	NELAP	0.0092	0.0250		**0.121**	mg/L	5	09/16/2023 13:26	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:26	210259
Chromium	NELAP	0.0007	0.0015	J	**0.0013**	mg/L	5	09/16/2023 13:26	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0004**	mg/L	5	08/04/2023 12:08	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:26	210259
Lithium	*	0.0015	0.0030		**0.0075**	mg/L	5	08/04/2023 12:08	210259
Molybdenum	*	0.0006	0.0015		**0.0042**	mg/L	5	09/16/2023 13:26	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 12:08	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 12:08	210259

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-013 **Client Sample ID:** APW09

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 13:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:20	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-014 **Client Sample ID:** APW10

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**19.40**	ft	1	07/31/2023 11:26	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**4.2**	NTU	1	07/31/2023 11:26	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**104**	mV	1	07/31/2023 11:26	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.1**	°C	1	07/31/2023 11:26	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.58**	mg/L	1	07/31/2023 11:26	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.07**		1	07/31/2023 11:26	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**416**	mg/L	1	08/01/2023 14:09	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 14:09	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1060**	mg/L	1	08/02/2023 10:48	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**421**	mg/L	10	08/03/2023 20:44	R334559
SW-846 9050A									
Conductivity	NELAP	10	10		**1410**	µmhos/cm @25C	1	08/09/2023 10:17	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.32**	mg/L	1	08/02/2023 12:59	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**45**	mg/L	1	08/03/2023 20:39	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	**140**	mg/L	1	08/02/2023 11:40	210259
Magnesium	NELAP	0.0055	0.0500	S	**67.3**	mg/L	1	08/02/2023 11:40	210259
Potassium	NELAP	0.0400	0.100		**1.50**	mg/L	1	08/02/2023 11:40	210259
Sodium	NELAP	0.0180	0.0500	S	**112**	mg/L	1	08/02/2023 11:40	210259
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	S	**< 0.0010**	mg/L	5	08/04/2023 12:26	210259
Arsenic	NELAP	0.0004	0.0010		**0.0094**	mg/L	5	09/16/2023 13:37	210259
Barium	NELAP	0.0007	0.0010		**0.0326**	mg/L	5	09/16/2023 13:37	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:37	210259
Boron	NELAP	0.0092	0.0250		**0.0923**	mg/L	5	09/16/2023 13:37	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:37	210259
Chromium	NELAP	0.0007	0.0015	J	**0.0011**	mg/L	5	09/16/2023 13:37	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	08/04/2023 12:26	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:37	210259
Lithium	*	0.0015	0.0030		**0.0215**	mg/L	5	08/08/2023 9:43	210259
Molybdenum	*	0.0006	0.0015		**0.0083**	mg/L	5	09/16/2023 13:37	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 12:26	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 12:26	210259
Matrix spike recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable.									

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-014 **Client Sample ID:** APW10

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:22	210255

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-015 **Client Sample ID:** APW11

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 14:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**25.09**	ft	1	07/24/2023 14:53	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**130**	NTU	1	07/24/2023 14:53	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-54**	mV	1	07/24/2023 14:53	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1340**	µS/cm	1	07/24/2023 14:53	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.5**	°C	1	07/24/2023 14:53	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.31**	mg/L	1	07/24/2023 14:53	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.17**		1	07/24/2023 14:53	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**427**	mg/L	1	07/26/2023 10:43	R333138
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/26/2023 10:43	R333138
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**840**	mg/L	2.5	07/26/2023 9:18	R333199
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**268**	mg/L	10	07/31/2023 14:47	R334391
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.32**	mg/L	1	07/26/2023 12:14	R333087
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**25**	mg/L	1	07/27/2023 17:33	R333281
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**122**	mg/L	1	07/26/2023 14:02	209945
Magnesium	NELAP	0.0060	0.0500		**52.7**	mg/L	1	07/26/2023 14:02	209945
Potassium	NELAP	0.0400	0.100		**2.10**	mg/L	1	07/26/2023 14:02	209945
Sodium	NELAP	0.0180	0.0500		**89.5**	mg/L	1	07/26/2023 14:02	209945
Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/02/2023 0:29	209945
Arsenic	NELAP	0.0004	0.0010		**0.0054**	mg/L	5	09/16/2023 15:58	209945
Barium	NELAP	0.0007	0.0010		**0.0492**	mg/L	5	09/16/2023 15:58	209945
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 15:58	209945
Boron	NELAP	0.0092	0.0250		**0.0646**	mg/L	5	09/16/2023 15:58	209945
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 15:58	209945
Chromium	NELAP	0.0007	0.0015		**0.0039**	mg/L	5	09/16/2023 15:58	209945
Cobalt	NELAP	0.0001	0.0010		**0.0013**	mg/L	5	08/02/2023 0:29	209945
Lead	NELAP	0.0006	0.0010		**0.0041**	mg/L	5	09/16/2023 15:58	209945
Lithium	*	0.0015	0.0030		**0.0199**	mg/L	5	08/02/2023 0:29	209945
Molybdenum	*	0.0006	0.0015		**0.0056**	mg/L	5	09/16/2023 15:58	209945
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 0:29	209945
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/02/2023 0:29	209945

Teklab, Inc.
Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-015 **Client Sample ID:** APW11

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 14:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	07/26/2023 15:02	209946

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-016 **Client Sample ID:** APW12

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 15:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**15.93**	ft	1	07/24/2023 15:23	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**< 1.0**	NTU	1	07/24/2023 15:23	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**47**	mV	1	07/24/2023 15:23	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**2190**	µS/cm	1	07/24/2023 15:23	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.7**	°C	1	07/24/2023 15:23	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.40**	mg/L	1	07/24/2023 15:23	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.39**		1	07/24/2023 15:23	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**614**	mg/L	1	07/26/2023 10:51	R333138
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/26/2023 10:51	R333138
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1700**	mg/L	1	07/26/2023 9:19	R333199
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		**655**	mg/L	20	07/31/2023 15:07	R334391
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.15**	mg/L	1	07/26/2023 12:16	R333087
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**25**	mg/L	1	07/27/2023 18:10	R333281
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**245**	mg/L	1	07/26/2023 14:22	209945
Magnesium	NELAP	0.0060	0.0500		**114**	mg/L	1	07/26/2023 14:22	209945
Potassium	NELAP	0.0400	0.100		**1.18**	mg/L	1	07/26/2023 14:22	209945
Sodium	NELAP	0.0180	0.0500		**129**	mg/L	1	07/26/2023 14:22	209945
Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/02/2023 0:35	209945
Arsenic	NELAP	0.0004	0.0010	J	**0.0008**	mg/L	5	09/16/2023 16:04	209945
Barium	NELAP	0.0007	0.0010		**0.0317**	mg/L	5	09/16/2023 16:04	209945
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 16:04	209945
Boron	NELAP	0.0092	0.0250		**0.521**	mg/L	5	09/16/2023 16:04	209945
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 16:04	209945
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	09/16/2023 16:04	209945
Cobalt	NELAP	0.0001	0.0010		**0.0014**	mg/L	5	08/02/2023 0:35	209945
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 16:04	209945
Lithium	*	0.0015	0.0030		**0.0275**	mg/L	5	08/02/2023 0:35	209945
Molybdenum	*	0.0006	0.0015	J	**0.0013**	mg/L	5	09/16/2023 16:04	209945
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 0:35	209945
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/02/2023 0:35	209945

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-016 **Client Sample ID:** APW12

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 15:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	07/26/2023 15:13	209946

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-017 **Client Sample ID:** APW13

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**33.49**	ft	1	07/31/2023 12:14	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**5.8**	NTU	1	07/31/2023 12:14	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**109**	mV	1	07/31/2023 12:14	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**18.1**	°C	1	07/31/2023 12:14	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.56**	mg/L	1	07/31/2023 12:14	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.94**		1	07/31/2023 12:14	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**504**	mg/L	1	08/01/2023 14:16	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 14:16	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**875**	mg/L	2.5	08/02/2023 10:48	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**233**	mg/L	10	08/03/2023 21:05	R334559
SW-846 9050A									
Conductivity	NELAP	10	10		**1290**	umhos/cm @25C	1	08/09/2023 10:13	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.42**	mg/L	1	08/02/2023 13:01	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**48**	mg/L	10	08/03/2023 21:06	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**121**	mg/L	1	08/02/2023 11:42	210259
Magnesium	NELAP	0.0055	0.0500		**61.7**	mg/L	1	08/02/2023 11:42	210259
Potassium	NELAP	0.0400	0.100		**1.94**	mg/L	1	08/02/2023 11:42	210259
Sodium	NELAP	0.0180	0.0500		**122**	mg/L	1	08/02/2023 11:42	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 12:14	210259
Arsenic	NELAP	0.0004	0.0010		**0.0053**	mg/L	5	09/16/2023 13:31	210259
Barium	NELAP	0.0007	0.0010		**0.0720**	mg/L	5	09/16/2023 13:31	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:31	210259
Boron	NELAP	0.0092	0.0250		**0.143**	mg/L	5	09/16/2023 13:31	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:31	210259
Chromium	NELAP	0.0007	0.0015	J	**0.0008**	mg/L	5	09/16/2023 13:31	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	08/04/2023 12:14	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 13:31	210259
Lithium	*	0.0015	0.0030		**0.0230**	mg/L	5	08/04/2023 12:14	210259
Molybdenum	*	0.0006	0.0015		**0.0098**	mg/L	5	09/16/2023 13:31	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 12:14	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 12:14	210259

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-017 **Client Sample ID:** APW13

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:24	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-018 **Client Sample ID:** APW14

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 12:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**22.12**	ft	1	07/31/2023 12:33	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.7**	NTU	1	07/31/2023 12:33	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**117**	mV	1	07/31/2023 12:33	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.2**	°C	1	07/31/2023 12:33	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.45**	mg/L	1	07/31/2023 12:33	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.04**		1	07/31/2023 12:33	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**450**	mg/L	1	08/01/2023 14:23	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 14:23	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**990**	mg/L	2.5	08/02/2023 11:11	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**370**	mg/L	10	08/03/2023 21:13	R334559
SW-846 9050A									
Conductivity	NELAP	10	10		**1420**	µmhos/cm @25C	1	08/09/2023 10:11	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.31**	mg/L	1	08/02/2023 13:03	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**42**	mg/L	1	08/03/2023 21:09	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**133**	mg/L	1	08/02/2023 11:43	210259
Magnesium	NELAP	0.0055	0.0500		**67.6**	mg/L	1	08/02/2023 11:43	210259
Potassium	NELAP	0.0400	0.100		**2.00**	mg/L	1	08/02/2023 11:43	210259
Sodium	NELAP	0.0180	0.0500		**126**	mg/L	1	08/02/2023 11:43	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 15:01	210259
Arsenic	NELAP	0.0004	0.0010		**0.0078**	mg/L	5	09/16/2023 14:48	210259
Barium	NELAP	0.0007	0.0010		**0.0649**	mg/L	5	09/16/2023 14:48	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:48	210259
Boron	NELAP	0.0092	0.0250		**0.103**	mg/L	5	09/16/2023 14:48	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:48	210259
Chromium	NELAP	0.0007	0.0015	J	**0.0010**	mg/L	5	09/16/2023 14:48	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	08/04/2023 15:01	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:48	210259
Lithium	*	0.0015	0.0030		**0.0207**	mg/L	5	08/08/2023 9:15	210259
Molybdenum	*	0.0006	0.0015		**0.0049**	mg/L	5	09/16/2023 14:48	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 15:01	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 15:01	210259

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-018 **Client Sample ID:** APW14

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 12:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:26	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-019 **Client Sample ID:** APW15

Matrix: GROUNDWATER **Collection Date:** 08/01/2023 8:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**21.40**	ft	1	08/01/2023 8:39	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**130**	NTU	1	08/01/2023 8:39	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-62**	mV	1	08/01/2023 8:39	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**2570**	µS/cm	1	08/01/2023 8:39	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.2**	°C	1	08/01/2023 8:39	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.49**	mg/L	1	08/01/2023 8:39	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.92**		1	08/01/2023 8:39	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**742**	mg/L	1	08/03/2023 10:35	R334529
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/03/2023 10:35	R334529
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**1120**	mg/L	2.5	08/03/2023 10:28	R334586
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**16**	mg/L	1	08/05/2023 1:58	R334639
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.46**	mg/L	1	08/04/2023 11:04	R334593
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**235**	mg/L	10	08/08/2023 12:16	R334776
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**100**	mg/L	1	08/04/2023 10:55	210307
Magnesium	NELAP	0.0055	0.0500		**39.9**	mg/L	1	08/04/2023 10:55	210307
Potassium	NELAP	0.0400	0.100		**3.35**	mg/L	1	08/04/2023 10:55	210307
Sodium	NELAP	0.0180	0.0500		**298**	mg/L	1	08/04/2023 10:55	210307
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 8:22	210307
Arsenic	NELAP	0.0004	0.0010		**0.0259**	mg/L	5	09/15/2023 23:51	210307
Barium	NELAP	0.0007	0.0010		**0.640**	mg/L	5	09/15/2023 23:51	210307
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/15/2023 23:51	210307
Boron	NELAP	0.0092	0.0250		**0.117**	mg/L	5	09/15/2023 23:51	210307
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/15/2023 23:51	210307
Chromium	NELAP	0.0007	0.0015		**0.0042**	mg/L	5	09/15/2023 23:51	210307
Cobalt	NELAP	0.0001	0.0010		**0.0014**	mg/L	5	08/04/2023 8:22	210307
Lead	NELAP	0.0006	0.0010		**0.0024**	mg/L	5	09/15/2023 23:51	210307
Lithium	*	0.0015	0.0030		**0.0061**	mg/L	5	08/04/2023 8:22	210307
Molybdenum	*	0.0006	0.0015		**0.0056**	mg/L	5	09/15/2023 23:51	210307
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 8:22	210307
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 8:22	210307

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-019 **Client Sample ID:** APW15

Matrix: GROUNDWATER **Collection Date:** 08/01/2023 8:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00007**	mg/L	1	08/03/2023 11:39	210305

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-020 **Client Sample ID:** APW16

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 15:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**40.89**	ft	1	07/31/2023 15:37	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.2**	NTU	1	07/31/2023 15:37	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**108**	mV	1	07/31/2023 15:37	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**946**	µS/cm	1	07/31/2023 15:37	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.2**	°C	1	07/31/2023 15:37	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.14**	mg/L	1	07/31/2023 15:37	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.13**		1	07/31/2023 15:37	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**628**	mg/L	1	08/01/2023 14:29	R334418
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/01/2023 14:29	R334418
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**665**	mg/L	2.5	08/02/2023 11:11	R334530
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**14**	mg/L	1	08/03/2023 21:15	R334559
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.72**	mg/L	1	08/02/2023 13:05	R334474
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**64**	mg/L	10	08/03/2023 21:22	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**94.0**	mg/L	1	08/02/2023 11:44	210259
Magnesium	NELAP	0.0055	0.0500		**42.7**	mg/L	1	08/02/2023 11:44	210259
Potassium	NELAP	0.0400	0.100		**1.96**	mg/L	1	08/02/2023 11:44	210259
Sodium	NELAP	0.0180	0.0500		**135**	mg/L	1	08/02/2023 11:44	210259
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 15:06	210259
Arsenic	NELAP	0.0004	0.0010		**0.0271**	mg/L	5	09/16/2023 14:53	210259
Barium	NELAP	0.0007	0.0010		**0.658**	mg/L	5	09/16/2023 14:53	210259
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:53	210259
Boron	NELAP	0.0092	0.0250		**0.147**	mg/L	5	09/16/2023 14:53	210259
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:53	210259
Chromium	NELAP	0.0007	0.0015	J	**0.0009**	mg/L	5	09/16/2023 14:53	210259
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	08/04/2023 15:06	210259
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:53	210259
Lithium	*	0.0015	0.0030	J	**0.0025**	mg/L	5	08/04/2023 15:06	210259
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	09/16/2023 14:53	210259
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 15:06	210259
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 15:06	210259

CCV recovered outside the upper control limits for Li. Sample results are below the reporting limit. Data is reportable per the TNI standard.

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-020 **Client Sample ID:** APW16

Matrix: GROUNDWATER **Collection Date:** 07/31/2023 15:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/02/2023 9:29	210255

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-021 **Client Sample ID:** APW17

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.81**	ft	1	07/25/2023 10:36	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**4.5**	NTU	1	07/25/2023 10:36	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**50**	mV	1	07/25/2023 10:36	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.6**	°C	1	07/25/2023 10:36	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.51**	mg/L	1	07/25/2023 10:36	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.94**		1	07/25/2023 10:36	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**534**	mg/L	1	07/27/2023 10:32	R333225
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/27/2023 10:32	R333225
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**670**	mg/L	2.5	07/27/2023 10:22	R333268
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**56**	mg/L	2	08/03/2023 17:32	R334559
SW-846 9050A									
Conductivity	NELAP	10	10		**1100**	umhos/cm @25C	1	08/09/2023 10:05	R334775
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.58**	mg/L	1	07/27/2023 9:53	R333194
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**53**	mg/L	10	08/02/2023 21:30	R334538
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**106**	mg/L	1	08/01/2023 18:12	210094
Magnesium	NELAP	0.0055	0.0500		**44.7**	mg/L	1	08/01/2023 18:12	210094
Potassium	NELAP	0.0400	0.100		**1.83**	mg/L	1	08/01/2023 18:12	210094
Sodium	NELAP	0.0180	0.0500		**90.1**	mg/L	1	08/01/2023 18:12	210094
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:49	210094
Arsenic	NELAP	0.0004	0.0010		**0.0274**	mg/L	5	07/29/2023 9:49	210094
Barium	NELAP	0.0007	0.0010		**0.609**	mg/L	5	07/29/2023 9:49	210094
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:21	210094
Boron	NELAP	0.0092	0.0250		**0.121**	mg/L	5	07/31/2023 16:21	210094
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:49	210094
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	07/31/2023 16:21	210094
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	07/31/2023 16:21	210094
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:49	210094
Lithium	*	0.0015	0.0030	J	**0.0025**	mg/L	5	08/02/2023 3:59	210094
Molybdenum	*	0.0006	0.0015		**0.0052**	mg/L	5	07/29/2023 9:49	210094
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 3:59	210094
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	07/29/2023 9:49	210094

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-021 **Client Sample ID:** APW17

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Mn was detected in the MBLK at a level above the MDL and the RL. Sample result showed a low level of Mn. Sample results may be biased high by detectable levels in the MBLK. Sample is consumed.									
CCV recovered outside the upper control limits for TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/03/2023 11:41	210305

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-022 **Client Sample ID:** APW18

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 9:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**52.25**	ft	1	07/25/2023 10:04	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**3.6**	NTU	1	07/25/2023 10:04	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**48**	mV	1	07/25/2023 10:04	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**756**	µS/cm	1	07/25/2023 10:04	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.4**	°C	1	07/25/2023 10:04	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.52**	mg/L	1	07/25/2023 10:04	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**7.22**		1	07/25/2023 10:04	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**517**	mg/L	1	07/27/2023 10:41	R333225
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/27/2023 10:41	R333225
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**535**	mg/L	2.5	07/27/2023 10:23	R333268
SW-846 9036 (TOTAL)									
Sulfate	NELAP	12	20		**49**	mg/L	2	08/03/2023 17:43	R334559
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.63**	mg/L	1	07/27/2023 9:55	R333194
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4	S	**26**	mg/L	1	08/02/2023 21:35	R334538
Matrix spike did not recover within control limits due to matrix interference.									
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**73.2**	mg/L	1	08/01/2023 18:13	210094
Magnesium	NELAP	0.0055	0.0500		**36.8**	mg/L	1	08/01/2023 18:13	210094
Potassium	NELAP	0.0400	0.100		**2.76**	mg/L	1	08/01/2023 18:13	210094
Sodium	NELAP	0.0180	0.0500		**107**	mg/L	1	08/01/2023 18:13	210094
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:56	210094
Arsenic	NELAP	0.0004	0.0010		**0.0023**	mg/L	5	07/29/2023 9:56	210094
Barium	NELAP	0.0007	0.0010		**0.368**	mg/L	5	07/29/2023 9:56	210094
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/31/2023 16:27	210094
Boron	NELAP	0.0092	0.0250		**0.128**	mg/L	5	07/31/2023 16:27	210094
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:56	210094
Chromium	NELAP	0.0007	0.0015		**< 0.0015**	mg/L	5	07/31/2023 16:27	210094
Cobalt	NELAP	0.0001	0.0010	J	**0.0003**	mg/L	5	07/31/2023 16:27	210094
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	07/29/2023 9:56	210094
Lithium	*	0.0015	0.0030		**0.0052**	mg/L	5	08/02/2023 4:06	210094
Molybdenum	*	0.0006	0.0015		**0.0032**	mg/L	5	07/29/2023 9:56	210094
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/02/2023 4:06	210094
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	07/29/2023 9:56	210094

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-022 **Client Sample ID:** APW18

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 9:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Sample result for Mn exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
CCV recovered outside the upper control limits for TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020	J	**0.00008**	mg/L	1	08/03/2023 11:44	210305

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23
Lab ID: 23070389-101
Client Sample ID: SG02
Matrix: GROUNDWATER
Collection Date: 08/07/2023 11:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**17.88**	ft	1	08/07/2023 11:45	R334750

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-102 **Client Sample ID:** XPW01

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**11.64**	ft	1	07/24/2023 12:30	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/27/2023 14:49	R333219
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**799**	mg/L	1	07/27/2023 14:49	R333219
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	80	100		**6110**	mg/L	5	07/26/2023 9:37	R333199
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		**2530**	mg/L	100	08/02/2023 13:45	R334506
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**44**	mg/L	5	07/27/2023 18:24	R333281
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**10.3**	mg/L	1	07/26/2023 14:24	209945
Magnesium	NELAP	0.0060	0.0500		**0.343**	mg/L	1	07/26/2023 14:24	209945
Potassium	NELAP	0.400	1.00		**42.4**	mg/L	10	07/28/2023 18:27	209945
Sodium	NELAP	0.180	0.500		**2050**	mg/L	10	07/28/2023 18:27	209945

Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-103 **Client Sample ID:** XPW02

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**8.74**	ft	1	07/24/2023 11:30	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**23**	mg/L	1	07/26/2023 11:06	R333138
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**24**	mg/L	1	07/26/2023 11:06	R333138
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**360**	mg/L	1	07/26/2023 9:37	R333199
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**213**	mg/L	5	07/27/2023 18:31	R333276
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**16**	mg/L	1	07/27/2023 18:26	R333281
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	**27.6**	mg/L	1	07/26/2023 14:28	209945
Magnesium	NELAP	0.0060	0.0500		**0.202**	mg/L	1	07/26/2023 14:28	209945
Potassium	NELAP	0.400	1.00	S	**16.4**	mg/L	10	07/28/2023 18:28	209945
Sodium	NELAP	0.0180	0.0500	S	**69.1**	mg/L	1	07/26/2023 14:28	209945

Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.
Matrix spike control limits are not applicable due to high sample/spike ratio.

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-104 **Client Sample ID:** XPW03

Matrix: GROUNDWATER **Collection Date:** 07/26/2023 14:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**10.89**	ft	1	07/26/2023 14:33	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/28/2023 10:27	R333270
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**175**	mg/L	1	07/28/2023 10:27	R333270
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**664**	mg/L	1	08/01/2023 11:14	R334473
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**138**	mg/L	10	08/03/2023 21:29	R334559
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**21**	mg/L	1	08/03/2023 21:25	R334594
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**22.8**	mg/L	1	08/01/2023 18:27	210094
Magnesium	NELAP	0.0055	0.0500		**0.134**	mg/L	1	08/01/2023 18:27	210094
Potassium	NELAP	0.400	1.00		**22.5**	mg/L	10	08/03/2023 15:30	210094
Sodium	NELAP	0.0180	0.0500		**190**	mg/L	1	08/01/2023 18:27	210094

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-105 **Client Sample ID:** XPW04

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**12.75**	ft	1	07/24/2023 13:00	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	07/26/2023 11:18	R333138
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**296**	mg/L	1	07/26/2023 11:18	R333138
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	160	200		**16600**	mg/L	10	07/27/2023 11:34	R333268
SW-846 9036 (TOTAL)									
Sulfate	NELAP	1230	2000		**9420**	mg/L	200	08/02/2023 14:07	R334506
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**186**	mg/L	5	07/27/2023 19:01	R333281
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**76.3**	mg/L	1	07/26/2023 14:34	209945
Magnesium	NELAP	0.0060	0.0500		**0.275**	mg/L	1	07/26/2023 14:34	209945
Potassium	NELAP	0.800	2.00		**88.6**	mg/L	20	07/28/2023 18:17	209945
Sodium	NELAP	0.180	0.500		**4560**	mg/L	10	08/11/2023 12:45	209945

Sample result(s) for Na exceed 10 times the CCB. Data is reportable per the TNI Standard.

Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.

Laboratory Results

Teklab, Inc.
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Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23
Lab ID: 23070389-106
Client Sample ID: XSG01
Matrix: GROUNDWATER
Collection Date: 08/07/2023 11:35

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**1.74**	ft	1	08/07/2023 11:35	R334750

Laboratory Results

Teklab, Inc.
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http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-107 **Client Sample ID:** Field Blank

Matrix: AQUEOUS **Collection Date:** 08/01/2023 15:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**1**	mg/L	1	08/03/2023 11:33	R334529
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/03/2023 11:33	R334529
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**< 20**	mg/L	1	08/03/2023 11:11	R334586
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10	J	**6**	mg/L	1	08/05/2023 2:19	R334639
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**< 0.10**	mg/L	1	08/04/2023 11:09	R334593
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**< 4**	mg/L	1	08/05/2023 2:18	R334646
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100		**0.243**	mg/L	1	08/04/2023 10:40	210307
Magnesium	NELAP	0.0055	0.0500		**0.0896**	mg/L	1	08/04/2023 10:40	210307
Potassium	NELAP	0.0400	0.100		**< 0.100**	mg/L	1	08/04/2023 10:40	210307
Sodium	NELAP	0.0180	0.0500		**0.134**	mg/L	1	08/04/2023 10:40	210307
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	08/04/2023 8:28	210307
Arsenic	NELAP	0.0004	0.0010		**< 0.0010**	mg/L	5	09/16/2023 2:01	210307
Barium	NELAP	0.0007	0.0010		**0.0012**	mg/L	5	09/16/2023 2:01	210307
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/18/2023 8:53	210307
Boron	NELAP	0.0092	0.0250		**< 0.0250**	mg/L	5	09/18/2023 8:53	210307
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 2:01	210307
Chromium	NELAP	0.0007	0.0015	J	**0.0007**	mg/L	5	09/16/2023 2:01	210307
Cobalt	NELAP	0.0001	0.0010	J	**0.0002**	mg/L	5	08/04/2023 8:28	210307
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/16/2023 2:01	210307
Lithium	*	0.0015	0.0030		**< 0.0030**	mg/L	5	08/04/2023 8:28	210307
Molybdenum	*	0.0006	0.0015		**< 0.0015**	mg/L	5	09/18/2023 8:53	210307
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/04/2023 8:28	210307
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/04/2023 8:28	210307
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00006	0.00020		**< 0.00020**	mg/L	1	08/04/2023 9:56	210306

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-116 **Client Sample ID:** APW02 (resample)

Matrix: GROUNDWATER **Collection Date:** 08/17/2023 11:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**7.32**	ft	1	08/17/2023 11:23	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**17**	NTU	1	08/17/2023 11:23	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**93**	mV	1	08/17/2023 11:23	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**8440**	µS/cm	1	08/17/2023 11:23	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.5**	°C	1	08/17/2023 11:23	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.60**	mg/L	1	08/17/2023 11:23	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.72**		1	08/17/2023 11:23	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**614**	mg/L	1	08/18/2023 13:41	R335230
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/18/2023 13:41	R335230
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**3660**	mg/L	1	08/21/2023 10:24	R335351
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		**2860**	mg/L	100	08/23/2023 23:44	R335452
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.21**	mg/L	1	08/21/2023 9:07	R335249
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**102**	mg/L	10	08/23/2023 23:40	R335479
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	S	**475**	mg/L	1	08/23/2023 12:29	211213
Magnesium	NELAP	0.0055	0.0500	S	**429**	mg/L	1	08/23/2023 12:29	211213
Potassium	NELAP	0.0400	0.100		**6.43**	mg/L	1	08/23/2023 12:29	211213
Sodium	NELAP	0.0180	0.0500	BS	**394**	mg/L	1	08/23/2023 12:29	211213
Sample result(s) for Na and Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
Matrix spike control limits are not applicable due to high sample/spike ratio.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	S	**< 0.0010**	mg/L	5	08/31/2023 17:44	211213
Arsenic	NELAP	0.0004	0.0010	J	**0.0009**	mg/L	5	08/31/2023 17:44	211213
Barium	NELAP	0.0007	0.0010		**0.0076**	mg/L	5	09/20/2023 13:19	212110
Beryllium	NELAP	0.0002	0.0010	J	**0.0004**	mg/L	5	08/31/2023 17:44	211213
Boron	NELAP	0.0150	0.0250		**0.189**	mg/L	5	08/31/2023 17:44	211213
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	08/31/2023 17:44	211213
Chromium	NELAP	0.0007	0.0015		**0.0022**	mg/L	5	08/31/2023 17:44	211213
Cobalt	NELAP	0.0001	0.0010		**0.0016**	mg/L	5	08/31/2023 17:44	211213
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/10/2023 19:25	211213
Lithium	*	0.0015	0.0030		**0.190**	mg/L	5	08/31/2023 17:44	211213
Molybdenum	*	0.0006	0.0015		**0.0015**	mg/L	5	08/31/2023 17:44	211213
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/31/2023 17:44	211213
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/31/2023 17:44	211213

Laboratory Results

Teklab, Inc.
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Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23
Lab ID: 23070389-116
Client Sample ID: APW02 (resample)
Matrix: GROUNDWATER
Collection Date: 08/17/2023 11:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
LCS recovered outside upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI Standard.									
Sample result for Al exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
Matrix spike recovered outside upper control limits for Sb. Sample results are below the reporting limit. Data is reportable.									
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00008	0.00020		**< 0.00020**	mg/L	1	08/23/2023 20:55	211189

Laboratory Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Lab ID: 23070389-117 **Client Sample ID:** APW02 Duplicate (resample)

Matrix: GROUNDWATER **Collection Date:** 08/17/2023 11:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**7.32**	ft	1	08/17/2023 11:23	R334750
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**17**	NTU	1	08/17/2023 11:23	R334750
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**93**	mV	1	08/17/2023 11:23	R334750
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**8440**	µS/cm	1	08/17/2023 11:23	R334750
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.5**	°C	1	08/17/2023 11:23	R334750
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**1.60**	mg/L	1	08/17/2023 11:23	R334750
SW-846 9040B FIELD									
pH	*	0	1.00		**6.72**		1	08/17/2023 11:23	R334750
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**609**	mg/L	1	08/18/2023 13:57	R335230
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	08/18/2023 13:57	R335230
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**3210**	mg/L	1	08/21/2023 10:24	R335351
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		**2980**	mg/L	100	08/23/2023 23:53	R335452
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.20**	mg/L	1	08/21/2023 9:10	R335249
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**104**	mg/L	10	08/23/2023 23:48	R335479
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.0350	0.100	B	**537**	mg/L	1	08/21/2023 19:25	211034
Magnesium	NELAP	0.0055	0.0500		**492**	mg/L	1	08/21/2023 19:25	211034
Potassium	NELAP	0.0400	0.100		**7.69**	mg/L	1	08/21/2023 19:25	211034
Sodium	NELAP	0.0180	0.0500		**473**	mg/L	1	08/21/2023 19:25	211034
Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.									
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.0004	0.0010	J	**0.0006**	mg/L	5	08/30/2023 14:10	211034
Arsenic	NELAP	0.0004	0.0010	J	**0.0009**	mg/L	5	09/16/2023 14:42	211034
Barium	NELAP	0.0007	0.0010		**0.0106**	mg/L	5	09/20/2023 13:30	212096
Beryllium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:42	211034
Boron	NELAP	0.0092	0.0250		**0.136**	mg/L	5	09/16/2023 14:42	211034
Cadmium	NELAP	0.0002	0.0010		**< 0.0010**	mg/L	5	09/16/2023 14:42	211034
Chromium	NELAP	0.0007	0.0015		**0.0019**	mg/L	5	09/20/2023 13:30	212096
Cobalt	NELAP	0.0001	0.0010		**0.0011**	mg/L	5	08/30/2023 14:10	211034
Lead	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	09/20/2023 13:30	212096
Lithium	*	0.0015	0.0030		**0.137**	mg/L	5	08/30/2023 14:10	211034
Molybdenum	*	0.0006	0.0015	J	**0.0014**	mg/L	5	09/16/2023 14:42	211034
Selenium	NELAP	0.0006	0.0010		**< 0.0010**	mg/L	5	08/30/2023 14:10	211034
Thallium	NELAP	0.0010	0.0020		**< 0.0020**	mg/L	5	08/30/2023 14:10	211034

Laboratory Results

Teklab, Inc.
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Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23
Lab ID: 23070389-117
Client Sample ID: APW02 Duplicate (resample)
Matrix: GROUNDWATER
Collection Date: 08/17/2023 11:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.00008	0.00020		**< 0.00020**	mg/L	1	08/23/2023 20:57	211189

Sample Summary

Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23070389-006	APW03	Groundwater	6	07/31/2023 13:47
23070389-007	APW04	Groundwater	6	07/31/2023 11:53
23070389-008	APW05	Groundwater	6	07/24/2023 13:52
23070389-009	APW05S	Groundwater	6	07/25/2023 12:53
23070389-010	APW06	Groundwater	6	07/25/2023 12:22
23070389-011	APW07	Groundwater	6	07/25/2023 10:10
23070389-012	APW08	Groundwater	6	07/31/2023 15:09
23070389-013	APW09	Groundwater	6	07/31/2023 13:32
23070389-014	APW10	Groundwater	6	07/31/2023 11:26
23070389-015	APW11	Groundwater	6	07/24/2023 14:53
23070389-016	APW12	Groundwater	6	07/24/2023 15:23
23070389-017	APW13	Groundwater	6	07/31/2023 12:14
23070389-018	APW14	Groundwater	6	07/31/2023 12:33
23070389-019	APW15	Groundwater	6	08/01/2023 8:39
23070389-020	APW16	Groundwater	6	07/31/2023 15:37
23070389-021	APW17	Groundwater	6	07/25/2023 10:36
23070389-022	APW18	Groundwater	6	07/25/2023 9:42
23070389-101	SG02	Groundwater	1	08/07/2023 11:45
23070389-102	XPW01	Groundwater	6	07/24/2023 12:30
23070389-103	XPW02	Groundwater	6	07/24/2023 11:30
23070389-104	XPW03	Groundwater	6	07/26/2023 14:33
23070389-105	XPW04	Groundwater	6	07/24/2023 13:00
23070389-106	XSG01	Groundwater	1	08/07/2023 11:35
23070389-107	Field Blank	Aqueous	8	08/01/2023 15:09
23070389-116	APW02 (resample)	Groundwater	6	08/17/2023 11:23
23070389-117	APW02 Duplicate (resample)	Groundwater	6	08/17/2023 11:23

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23070389-006A	APW03	07/31/2023 13:47	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 13:47
	Field Elevation Measurements				07/31/2023 13:47
	Standard Methods 2130 B Field				07/31/2023 13:47
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 13:47
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 13:40
	Standard Methods 2320 B 1997, 2011				08/01/2023 13:40
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 9:32
	Standard Methods 2550 B Field				07/31/2023 13:47
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:28
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 14:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 13:47
	Standard Methods 4500-P E 1999				08/03/2023 11:05
	Standard Methods 4500-P E 1999, 2011				08/03/2023 11:08
	SW-846 9036 (Total)				08/04/2023 14:05
	SW-846 9040B Field				07/31/2023 13:47
	SW-846 9050A				08/09/2023 10:19
	SW-846 9214 (Total)				08/02/2023 12:49
	SW-846 9251 (Total)				08/03/2023 19:38
23070389-006B	APW03	07/31/2023 13:47	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 12:45
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 12:45
	Standard Methods 2550 B Field				07/31/2023 13:47
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:24
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:14
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:05
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/02/2023 19:13
	SW-846 9251 (Dissolved)				08/02/2023 19:08
23070389-006C	APW03	07/31/2023 13:47	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:24
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:09
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 10:03
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 13:10
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:04

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23070389-006D	APW03	07/31/2023 13:47	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:29
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/16/2023 22:46
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/19/2023 10:27
23070389-006E	APW03	07/31/2023 13:47	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 17:56
23070389-006F	APW03	07/31/2023 13:47	08/01/2023 8:05		
	SW-846 9060A				08/10/2023 1:47
23070389-007A	APW04	07/31/2023 11:53	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 11:53
	Field Elevation Measurements				07/31/2023 11:53
	Standard Methods 2130 B Field				07/31/2023 11:53
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 11:53
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 13:47
	Standard Methods 2320 B 1997, 2011				08/01/2023 13:47
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 10:47
	Standard Methods 2550 B Field				07/31/2023 11:53
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:28
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 14:53
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 11:53
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:41
	SW-846 9036 (Total)				08/04/2023 14:31
	SW-846 9040B Field				07/31/2023 11:53
	SW-846 9050A				08/09/2023 10:22
	SW-846 9214 (Total)				08/02/2023 12:51
	SW-846 9251 (Total)				08/03/2023 20:15
23070389-007B	APW04	07/31/2023 11:53	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 12:51
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 12:51
	Standard Methods 2550 B Field				07/31/2023 11:53
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:24
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:16
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:07
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9036 (Dissolved)				08/03/2023 16:38
	SW-846 9251 (Dissolved)				08/02/2023 19:16
23070389-007C	APW04	07/31/2023 11:53	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:25
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:10
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 12:20
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 13:15
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:11
23070389-007D	APW04	07/31/2023 11:53	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:30
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/16/2023 22:52
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/19/2023 13:41
23070389-007E	APW04	07/31/2023 11:53	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 18:02
23070389-007F	APW04	07/31/2023 11:53	08/01/2023 8:05		
	SW-846 9060A				08/10/2023 1:53
23070389-008A	APW05	07/24/2023 13:52	07/25/2023 8:40		
	Ferrous Iron by CHEMets Kit				07/24/2023 13:52
	Field Elevation Measurements				07/24/2023 13:52
	Standard Methods 2130 B Field				07/24/2023 13:52
	Standard Methods 18th Ed. 2580 B Field				07/24/2023 13:52
	Standard Methods 2320 B (Total) 1997, 2011				07/26/2023 10:36
	Standard Methods 2320 B 1997, 2011				07/26/2023 10:36
	Standard Methods 2510 B Field				07/24/2023 13:52
	Standard Methods 2540 C (Total) 1997, 2011				07/26/2023 9:18
	Standard Methods 2550 B Field				07/24/2023 13:52
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/25/2023 15:43
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 19:19
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-O G Field				07/24/2023 13:52
	Standard Methods 4500-P E 1999				07/26/2023 0:00
	Standard Methods 4500-P E 1999, 2011				07/26/2023 7:33
	SW-846 9036 (Total)				07/27/2023 17:21
	SW-846 9040B Field				07/24/2023 13:52
	SW-846 9214 (Total)				07/26/2023 12:13
	SW-846 9251 (Total)				07/27/2023 17:22
23070389-008B	APW05	07/24/2023 13:52	07/25/2023 8:40		

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 11:29
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 11:29
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/25/2023 15:45
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 19:52
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 7:34
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 0:00
	SW-846 9036 (Dissolved)				07/31/2023 12:14
	SW-846 9251 (Dissolved)				07/27/2023 13:28
23070389-008C	APW05	07/24/2023 13:52	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/26/2023 14:00
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	08/02/2023 0:22
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/16/2023 15:53
	SW-846 7470A (Total)			07/25/2023 18:14	07/26/2023 14:59
23070389-008D	APW05	07/24/2023 13:52	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:44
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:14
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 17:20
23070389-008E	APW05	07/24/2023 13:52	07/25/2023 8:40		
	SW-846 9060A				08/18/2023 18:09
23070389-008F	APW05	07/24/2023 13:52	07/25/2023 8:40		
	SW-846 9060A				08/10/2023 2:00
23070389-009A	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	Ferrous Iron by CHEMets Kit				07/25/2023 12:53
	Field Elevation Measurements				07/25/2023 12:53
	Standard Methods 2130 B Field				07/25/2023 12:53
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 12:53
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 10:08
	Standard Methods 2320 B 1997, 2011				07/27/2023 10:08
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 9:28
	Standard Methods 2550 B Field				07/25/2023 12:53
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/26/2023 18:53
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:38
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:38
	Standard Methods 4500-O G Field				07/25/2023 12:53
	Standard Methods 4500-P E 1999				07/26/2023 15:37
	Standard Methods 4500-P E 1999, 2011				07/26/2023 15:26

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9036 (Total)				08/03/2023 17:02
	SW-846 9040B Field				07/25/2023 12:53
	SW-846 9050A				08/09/2023 10:42
	SW-846 9214 (Total)				07/27/2023 9:44
	SW-846 9251 (Total)				08/01/2023 0:09
23070389-009B	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:35
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:35
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:42
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 16:41
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 15:33
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 15:37
	SW-846 9036 (Dissolved)				07/31/2023 12:28
	SW-846 9251 (Dissolved)				07/27/2023 13:41
23070389-009C	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:05
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/04/2023 12:14
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/29/2023 9:37
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/31/2023 16:08
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	08/02/2023 3:47
	SW-846 7470A (Total)			08/02/2023 12:13	08/03/2023 11:28
23070389-009D	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:45
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 16:58
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 17:41
23070389-009E	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	SW-846 9060A				08/18/2023 18:15
23070389-009F	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	SW-846 9060A				08/10/2023 2:06
23070389-010A	APW06	07/25/2023 12:22	07/26/2023 8:15		
	Ferrous Iron by CHEMets Kit				07/25/2023 12:22
	Field Elevation Measurements				07/25/2023 12:22
	Standard Methods 2130 B Field				07/25/2023 12:22
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 12:22
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 10:16
	Standard Methods 2320 B 1997, 2011				07/27/2023 10:16

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2510 B Field				07/25/2023 12:22
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 9:28
	Standard Methods 2550 B Field				07/25/2023 12:22
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/26/2023 18:53
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:47
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:47
	Standard Methods 4500-O G Field				07/25/2023 12:22
	Standard Methods 4500-P E 1999				07/26/2023 15:37
	Standard Methods 4500-P E 1999, 2011				07/26/2023 15:27
	SW-846 9036 (Total)				08/02/2023 21:00
	SW-846 9040B Field				07/25/2023 12:22
	SW-846 9214 (Total)				07/27/2023 9:46
	SW-846 9251 (Total)				08/02/2023 21:00
23070389-010B	APW06	07/25/2023 12:22	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:43
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:43
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:43
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 16:43
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 16:43
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 15:33
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 15:37
	SW-846 9036 (Dissolved)				07/31/2023 12:30
	SW-846 9251 (Dissolved)				07/27/2023 13:44
23070389-010C	APW06	07/25/2023 12:22	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:06
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/04/2023 12:37
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/29/2023 10:41
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/31/2023 16:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	08/02/2023 2:30
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	08/04/2023 8:16
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/15/2023 23:08
	SW-846 7470A (Total)			08/02/2023 12:13	08/03/2023 11:30
23070389-010D	APW06	07/25/2023 12:22	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:50
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:15
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 17:25
23070389-010E	APW06	07/25/2023 12:22	07/26/2023 8:15		

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9060A				08/18/2023 18:22
23070389-010F	APW06	07/25/2023 12:22	07/26/2023 8:15		
	SW-846 9060A				08/10/2023 2:14
23070389-011A	APW07	07/25/2023 10:10	07/26/2023 8:15		
	Ferrous Iron by CHEMets Kit				07/25/2023 10:10
	Field Elevation Measurements				07/25/2023 10:10
	Standard Methods 2130 B Field				07/25/2023 10:10
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 10:10
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 10:24
	Standard Methods 2320 B 1997, 2011				07/27/2023 10:24
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 9:28
	Standard Methods 2550 B Field				07/25/2023 10:10
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/26/2023 18:54
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:49
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:49
	Standard Methods 4500-O G Field				07/25/2023 10:10
	Standard Methods 4500-P E 1999				07/26/2023 15:37
	Standard Methods 4500-P E 1999, 2011				07/26/2023 15:27
	SW-846 9036 (Total)				08/02/2023 21:07
	SW-846 9040B Field				07/25/2023 10:10
	SW-846 9050A				08/09/2023 10:04
	SW-846 9214 (Total)				07/27/2023 9:47
	SW-846 9251 (Total)				08/02/2023 21:14
23070389-011B	APW07	07/25/2023 10:10	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:51
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:51
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:43
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 16:45
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 16:45
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 15:34
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 15:37
	SW-846 9036 (Dissolved)				07/27/2023 13:51
	SW-846 9251 (Dissolved)				07/27/2023 13:57
23070389-011C	APW07	07/25/2023 10:10	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:08
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/04/2023 12:14
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/29/2023 9:43

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/31/2023 16:14
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	08/02/2023 3:53
	SW-846 7470A (Total)			08/02/2023 12:13	08/03/2023 11:32
23070389-011D	APW07	07/25/2023 10:10	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:52
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:17
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 17:31
23070389-011E	APW07	07/25/2023 10:10	07/26/2023 8:15		
	SW-846 9060A				08/18/2023 19:00
23070389-011F	APW07	07/25/2023 10:10	07/26/2023 8:15		
	SW-846 9060A				08/15/2023 1:38
23070389-012A	APW08	07/31/2023 15:09	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 15:09
	Field Elevation Measurements				07/31/2023 15:09
	Standard Methods 2130 B Field				07/31/2023 15:09
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 15:09
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 13:54
	Standard Methods 2320 B 1997, 2011				08/01/2023 13:54
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 10:47
	Standard Methods 2550 B Field				07/31/2023 15:09
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:29
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 14:55
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 15:09
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:42
	SW-846 9036 (Total)				08/04/2023 14:35
	SW-846 9040B Field				07/31/2023 15:09
	SW-846 9050A				08/09/2023 10:14
	SW-846 9214 (Total)				08/02/2023 12:54
	SW-846 9251 (Total)				08/03/2023 20:29
23070389-012B	APW08	07/31/2023 15:09	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 12:58
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 12:58
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:25
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:18
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:08
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/03/2023 16:46
	SW-846 9251 (Dissolved)				08/02/2023 19:30
23070389-012C	APW08	07/31/2023 15:09	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:26
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:11
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 14:43
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 13:21
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:13
23070389-012D	APW08	07/31/2023 15:09	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:35
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/03/2023 15:39
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/16/2023 22:57
23070389-012E	APW08	07/31/2023 15:09	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 19:06
23070389-012F	APW08	07/31/2023 15:09	08/01/2023 8:05		
	SW-846 9060A				08/15/2023 1:44
23070389-013A	APW09	07/31/2023 13:32	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 13:32
	Field Elevation Measurements				07/31/2023 13:32
	Standard Methods 2130 B Field				07/31/2023 13:32
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 13:32
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 14:01
	Standard Methods 2320 B 1997, 2011				08/01/2023 14:01
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 10:47
	Standard Methods 2550 B Field				07/31/2023 13:32
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:29
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 14:58
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 13:32
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:42
	SW-846 9036 (Total)				08/03/2023 20:30
	SW-846 9040B Field				07/31/2023 13:32
	SW-846 9050A				08/09/2023 10:08
	SW-846 9214 (Total)				08/02/2023 12:56

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9251 (Total)				08/03/2023 20:37
23070389-013B	APW09	07/31/2023 13:32	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:05
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:05
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:26
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:26
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:09
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/02/2023 19:31
	SW-846 9251 (Dissolved)				08/02/2023 19:38
23070389-013C	APW09	07/31/2023 13:32	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:26
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:11
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 12:08
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 13:26
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:20
23070389-013D	APW09	07/31/2023 13:32	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:36
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/03/2023 15:39
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/16/2023 23:03
23070389-013E	APW09	07/31/2023 13:32	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 19:12
23070389-013F	APW09	07/31/2023 13:32	08/01/2023 8:05		
	SW-846 9060A				08/14/2023 12:58
23070389-014A	APW10	07/31/2023 11:26	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 11:26
	Field Elevation Measurements				07/31/2023 11:26
	Standard Methods 2130 B Field				07/31/2023 11:26
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 11:26
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 14:09
	Standard Methods 2320 B 1997, 2011				08/01/2023 14:09
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 10:48
	Standard Methods 2550 B Field				07/31/2023 11:26
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:30
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 15:06
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-O G Field				07/31/2023 11:26
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:43
	SW-846 9036 (Total)				08/03/2023 20:44
	SW-846 9040B Field				07/31/2023 11:26
	SW-846 9050A				08/09/2023 10:17
	SW-846 9214 (Total)				08/02/2023 12:59
	SW-846 9251 (Total)				08/03/2023 20:39
23070389-014B	APW10	07/31/2023 11:26	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:12
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:12
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:26
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:29
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:09
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/02/2023 19:45
	SW-846 9251 (Dissolved)				08/02/2023 19:40
23070389-014C	APW10	07/31/2023 11:26	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:40
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:24
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 12:26
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/08/2023 9:43
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 13:37
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:22
23070389-014D	APW10	07/31/2023 11:26	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:37
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/16/2023 23:08
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/18/2023 16:46
23070389-014E	APW10	07/31/2023 11:26	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 19:50
23070389-014F	APW10	07/31/2023 11:26	08/01/2023 8:05		
	SW-846 9060A				08/14/2023 14:20
23070389-015A	APW11	07/24/2023 14:53	07/25/2023 8:40		
	Ferrous Iron by CHEMets Kit				07/24/2023 14:53
	Field Elevation Measurements				07/24/2023 14:53
	Standard Methods 2130 B Field				07/24/2023 14:53

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 18th Ed. 2580 B Field				07/24/2023 14:53
	Standard Methods 2320 B (Total) 1997, 2011				07/26/2023 10:43
	Standard Methods 2320 B 1997, 2011				07/26/2023 10:43
	Standard Methods 2510 B Field				07/24/2023 14:53
	Standard Methods 2540 C (Total) 1997, 2011				07/26/2023 9:18
	Standard Methods 2550 B Field				07/24/2023 14:53
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/25/2023 15:43
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 19:21
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-O G Field				07/24/2023 14:53
	Standard Methods 4500-P E 1999				07/26/2023 0:00
	Standard Methods 4500-P E 1999, 2011				07/26/2023 7:35
	SW-846 9036 (Total)				07/31/2023 14:47
	SW-846 9040B Field				07/24/2023 14:53
	SW-846 9214 (Total)				07/26/2023 12:14
	SW-846 9251 (Total)				07/27/2023 17:33
23070389-015B	APW11	07/24/2023 14:53	07/25/2023 8:40		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 11:37
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 11:37
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/25/2023 15:46
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 19:54
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 7:36
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 0:00
	SW-846 9036 (Dissolved)				07/27/2023 14:21
	SW-846 9251 (Dissolved)				07/27/2023 14:16
23070389-015C	APW11	07/24/2023 14:53	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/26/2023 14:02
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	08/02/2023 0:29
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/16/2023 15:58
	SW-846 7470A (Total)			07/25/2023 18:14	07/26/2023 15:02
23070389-015D	APW11	07/24/2023 14:53	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:54
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:18
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 17:36
23070389-015E	APW11	07/24/2023 14:53	07/25/2023 8:40		
	SW-846 9060A				08/18/2023 19:56

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23070389-015F	APW11	07/24/2023 14:53	07/25/2023 8:40		
	SW-846 9060A				08/14/2023 14:27
23070389-016A	APW12	07/24/2023 15:23	07/25/2023 8:40		
	Ferrous Iron by CHEMets Kit				07/24/2023 15:23
	Field Elevation Measurements				07/24/2023 15:23
	Standard Methods 2130 B Field				07/24/2023 15:23
	Standard Methods 18th Ed. 2580 B Field				07/24/2023 15:23
	Standard Methods 2320 B (Total) 1997, 2011				07/26/2023 10:51
	Standard Methods 2320 B 1997, 2011				07/26/2023 10:51
	Standard Methods 2510 B Field				07/24/2023 15:23
	Standard Methods 2540 C (Total) 1997, 2011				07/26/2023 9:19
	Standard Methods 2550 B Field				07/24/2023 15:23
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/25/2023 15:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 19:37
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-O G Field				07/24/2023 15:23
	Standard Methods 4500-P E 1999				07/26/2023 0:00
	Standard Methods 4500-P E 1999, 2011				07/26/2023 7:38
	SW-846 9036 (Total)				07/31/2023 15:07
	SW-846 9040B Field				07/24/2023 15:23
	SW-846 9214 (Total)				07/26/2023 12:16
	SW-846 9251 (Total)				07/27/2023 18:10
23070389-016B	APW12	07/24/2023 15:23	07/25/2023 8:40		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 11:44
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 11:44
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/25/2023 15:47
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 20:14
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 7:40
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 0:00
	SW-846 9036 (Dissolved)				07/31/2023 12:39
	SW-846 9251 (Dissolved)				07/27/2023 14:24
23070389-016C	APW12	07/24/2023 15:23	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/26/2023 14:22
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	08/02/2023 0:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/16/2023 16:04
	SW-846 7470A (Total)			07/25/2023 18:14	07/26/2023 15:13

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
23070389-016D	APW12	07/24/2023 15:23	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:55
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:20
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 18:20
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/18/2023 11:53
23070389-016E	APW12	07/24/2023 15:23	07/25/2023 8:40		
	SW-846 9060A				08/18/2023 20:35
23070389-016F	APW12	07/24/2023 15:23	07/25/2023 8:40		
	SW-846 9060A				08/14/2023 14:33
23070389-017A	APW13	07/31/2023 12:14	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 12:14
	Field Elevation Measurements				07/31/2023 12:14
	Standard Methods 2130 B Field				07/31/2023 12:14
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 12:14
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 14:16
	Standard Methods 2320 B 1997, 2011				08/01/2023 14:16
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 10:48
	Standard Methods 2550 B Field				07/31/2023 12:14
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:30
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 15:09
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 12:14
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:43
	SW-846 9036 (Total)				08/03/2023 21:05
	SW-846 9040B Field				07/31/2023 12:14
	SW-846 9050A				08/09/2023 10:13
	SW-846 9214 (Total)				08/02/2023 13:01
	SW-846 9251 (Total)				08/03/2023 21:06
23070389-017B	APW13	07/31/2023 12:14	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:19
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:19
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:27
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:31
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:09
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9036 (Dissolved)				08/02/2023 20:09
	SW-846 9251 (Dissolved)				08/02/2023 20:10
23070389-017C	APW13	07/31/2023 12:14	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:42
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:12
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 12:14
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 13:31
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:24
23070389-017D	APW13	07/31/2023 12:14	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:38
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/16/2023 23:13
23070389-017E	APW13	07/31/2023 12:14	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 20:41
23070389-017F	APW13	07/31/2023 12:14	08/01/2023 8:05		
	SW-846 9060A				08/14/2023 14:39
23070389-018A	APW14	07/31/2023 12:33	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 12:33
	Field Elevation Measurements				07/31/2023 12:33
	Standard Methods 2130 B Field				07/31/2023 12:33
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 12:33
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 14:23
	Standard Methods 2320 B 1997, 2011				08/01/2023 14:23
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 11:11
	Standard Methods 2550 B Field				07/31/2023 12:33
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:38
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 15:11
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 12:33
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:44
	SW-846 9036 (Total)				08/03/2023 21:13
	SW-846 9040B Field				07/31/2023 12:33
	SW-846 9050A				08/09/2023 10:11
	SW-846 9214 (Total)				08/02/2023 13:03
	SW-846 9251 (Total)				08/03/2023 21:09
23070389-018B	APW14	07/31/2023 12:33	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:26

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date	Test Name	Prep Date/Time	Analysis Date/Time
				Standard Methods 2320 B (Dissolved) 1997, 2011		08/01/2023 13:26
				Standard Methods 4500-NO2 B (Dissolved) 2000, 2011		08/01/2023 17:27
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/01/2023 14:33
				Standard Methods 4500-NO3 F (Dissolved) 2000, 2011		08/01/2023 16:41
				Standard Methods 4500-P E (Dissolved) 1999, 2011		08/01/2023 14:12
				Standard Methods 4500-P E (Dissolved) 1999		08/02/2023 12:56
				SW-846 9036 (Dissolved)		08/02/2023 20:17
				SW-846 9251 (Dissolved)		08/02/2023 20:12
23070389-018C	APW14	07/31/2023 12:33	08/01/2023 8:05			
				SW-846 3005A, 6010B, Metals by ICP (Total)	08/01/2023 10:59	08/02/2023 11:43
				SW-846 3005A, 6010B, Metals by ICP (Total)	08/01/2023 10:59	08/02/2023 16:13
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/01/2023 10:59	08/04/2023 15:01
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/01/2023 10:59	08/08/2023 9:15
				SW-846 3005A, 6020A, Metals by ICPMS (Total)	08/01/2023 10:59	09/16/2023 14:48
				SW-846 7470A (Total)	08/01/2023 10:30	08/02/2023 9:26
23070389-018D	APW14	07/31/2023 12:33	08/01/2023 8:05			
				SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/02/2023 10:31	08/02/2023 16:38
				SW-846 3005A, 6010B, Metals by ICP (Dissolved)	08/02/2023 10:31	08/03/2023 15:40
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/02/2023 10:31	09/17/2023 0:24
				SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)	08/02/2023 10:31	09/18/2023 18:08
23070389-018E	APW14	07/31/2023 12:33	08/01/2023 8:05			
				SW-846 9060A		08/18/2023 20:47
23070389-018F	APW14	07/31/2023 12:33	08/01/2023 8:05			
				SW-846 9060A		08/14/2023 14:45
23070389-019A	APW15	08/01/2023 8:39	08/02/2023 10:00			
				Ferrous Iron by CHEMets Kit		08/01/2023 8:39
				Field Elevation Measurements		08/01/2023 8:39
				Standard Methods 2130 B Field		08/01/2023 8:39
				Standard Methods 18th Ed. 2580 B Field		08/01/2023 8:39
				Standard Methods 2320 B (Total) 1997, 2011		08/03/2023 10:35
				Standard Methods 2320 B 1997, 2011		08/03/2023 10:35
				Standard Methods 2510 B Field		08/01/2023 8:39
				Standard Methods 2540 C (Total) 1997, 2011		08/03/2023 10:28
				Standard Methods 2550 B Field		08/01/2023 8:39
				Standard Methods 4500-NO2 B (Total) 2000, 2011		08/02/2023 15:00
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/02/2023 15:41
				Standard Methods 4500-NO3 F (Total) 2000, 2011		08/02/2023 15:41

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-O G Field				08/01/2023 8:39
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/02/2023 12:49
	SW-846 9036 (Total)				08/05/2023 1:58
	SW-846 9040B Field				08/01/2023 8:39
	SW-846 9214 (Total)				08/04/2023 11:04
	SW-846 9251 (Total)				08/08/2023 12:16
23070389-019B	APW15	08/01/2023 8:39	08/02/2023 10:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/03/2023 11:41
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/03/2023 11:41
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/02/2023 14:56
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:07
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:07
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/02/2023 12:49
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/03/2023 23:05
	SW-846 9251 (Dissolved)				08/03/2023 23:11
23070389-019C	APW15	08/01/2023 8:39	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 10:55
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	08/04/2023 8:22
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/15/2023 23:51
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/18/2023 8:21
	SW-846 7470A (Total)			08/02/2023 12:13	08/03/2023 11:39
23070389-019D	APW15	08/01/2023 8:39	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/08/2023 14:17	08/09/2023 17:33
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/14/2023 1:47
23070389-019E	APW15	08/01/2023 8:39	08/02/2023 10:00		
	SW-846 9060A				08/24/2023 17:37
23070389-019F	APW15	08/01/2023 8:39	08/02/2023 10:00		
	SW-846 9060A				08/24/2023 19:31
23070389-020A	APW16	07/31/2023 15:37	08/01/2023 8:05		
	Ferrous Iron by CHEMets Kit				07/31/2023 15:37
	Field Elevation Measurements				07/31/2023 15:37
	Standard Methods 2130 B Field				07/31/2023 15:37
	Standard Methods 18th Ed. 2580 B Field				07/31/2023 15:37
	Standard Methods 2320 B (Total) 1997, 2011				08/01/2023 14:29
	Standard Methods 2320 B 1997, 2011				08/01/2023 14:29

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2510 B Field				07/31/2023 15:37
	Standard Methods 2540 C (Total) 1997, 2011				08/02/2023 11:11
	Standard Methods 2550 B Field				07/31/2023 15:37
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/01/2023 17:38
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 15:26
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-O G Field				07/31/2023 15:37
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/01/2023 13:44
	SW-846 9036 (Total)				08/03/2023 21:15
	SW-846 9040B Field				07/31/2023 15:37
	SW-846 9214 (Total)				08/02/2023 13:05
	SW-846 9251 (Total)				08/03/2023 21:22
23070389-020B	APW16	07/31/2023 15:37	08/01/2023 8:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:33
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/01/2023 13:33
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/01/2023 17:28
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 14:36
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/01/2023 16:41
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/01/2023 14:12
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/02/2023 20:19
	SW-846 9251 (Dissolved)				08/02/2023 20:26
23070389-020C	APW16	07/31/2023 15:37	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 11:44
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/01/2023 10:59	08/02/2023 16:26
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	08/04/2023 15:06
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/01/2023 10:59	09/16/2023 14:53
	SW-846 7470A (Total)			08/01/2023 10:30	08/02/2023 9:29
23070389-020D	APW16	07/31/2023 15:37	08/01/2023 8:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/02/2023 16:39
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/02/2023 10:31	08/03/2023 15:41
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/02/2023 10:31	09/17/2023 0:29
23070389-020E	APW16	07/31/2023 15:37	08/01/2023 8:05		
	SW-846 9060A				08/18/2023 21:31
23070389-020F	APW16	07/31/2023 15:37	08/01/2023 8:05		
	SW-846 9060A				08/14/2023 14:59

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
23070389-021A	APW17	07/25/2023 10:36	07/26/2023 8:15		
	Ferrous Iron by CHEMets Kit				07/25/2023 10:36
	Field Elevation Measurements				07/25/2023 10:36
	Standard Methods 2130 B Field				07/25/2023 10:36
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 10:36
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 10:32
	Standard Methods 2320 B 1997, 2011				07/27/2023 10:32
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 10:22
	Standard Methods 2550 B Field				07/25/2023 10:36
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/26/2023 18:54
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:51
	Standard Methods 4500-O G Field				07/25/2023 10:36
	Standard Methods 4500-P E 1999				07/26/2023 15:37
	Standard Methods 4500-P E 1999, 2011				07/26/2023 15:28
	SW-846 9036 (Total)				08/03/2023 17:32
	SW-846 9040B Field				07/25/2023 10:36
	SW-846 9050A				08/09/2023 10:05
	SW-846 9214 (Total)				07/27/2023 9:53
	SW-846 9251 (Total)				08/02/2023 21:30
23070389-021B	APW17	07/25/2023 10:36	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:59
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 11:59
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:43
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:01
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:01
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 15:34
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 15:37
	SW-846 9036 (Dissolved)				07/27/2023 14:37
	SW-846 9251 (Dissolved)				07/27/2023 14:37
23070389-021C	APW17	07/25/2023 10:36	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:12
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/04/2023 17:00
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/29/2023 9:49
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/31/2023 16:21
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	08/02/2023 3:59
	SW-846 7470A (Total)			08/02/2023 12:13	08/03/2023 11:41

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
23070389-021D	APW17	07/25/2023 10:36	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 20:57
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:22
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 18:25
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/18/2023 12:25
23070389-021E	APW17	07/25/2023 10:36	07/26/2023 8:15		
	SW-846 9060A				08/18/2023 22:10
23070389-021F	APW17	07/25/2023 10:36	07/26/2023 8:15		
	SW-846 9060A				08/14/2023 16:08
23070389-022A	APW18	07/25/2023 9:42	07/26/2023 8:15		
	Ferrous Iron by CHEMets Kit				07/25/2023 10:04
	Field Elevation Measurements				07/25/2023 10:04
	Standard Methods 2130 B Field				07/25/2023 10:04
	Standard Methods 18th Ed. 2580 B Field				07/25/2023 10:04
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 10:41
	Standard Methods 2320 B 1997, 2011				07/27/2023 10:41
	Standard Methods 2510 B Field				07/25/2023 10:04
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 10:23
	Standard Methods 2550 B Field				07/25/2023 10:04
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/26/2023 18:55
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:53
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/26/2023 17:53
	Standard Methods 4500-O G Field				07/25/2023 10:04
	Standard Methods 4500-P E 1999				07/26/2023 15:37
	Standard Methods 4500-P E 1999, 2011				07/26/2023 15:29
	SW-846 9036 (Total)				08/03/2023 17:43
	SW-846 9040B Field				07/25/2023 10:04
	SW-846 9214 (Total)				07/27/2023 9:55
	SW-846 9251 (Total)				08/02/2023 21:35
23070389-022B	APW18	07/25/2023 9:42	07/26/2023 8:15		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 12:07
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 12:07
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/26/2023 18:44
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:09
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/26/2023 17:09
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 15:36
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 15:37

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 9036 (Dissolved)				07/27/2023 14:38
	SW-846 9251 (Dissolved)				07/27/2023 14:40
23070389-022C	APW18	07/25/2023 9:42	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:13
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/04/2023 12:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/29/2023 9:56
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/31/2023 16:27
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	08/02/2023 4:06
	SW-846 7470A (Total)			08/02/2023 12:13	08/03/2023 11:44
23070389-022D	APW18	07/25/2023 9:42	07/26/2023 8:15		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:08
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:23
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 18:30
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/18/2023 12:31
23070389-022E	APW18	07/25/2023 9:42	07/26/2023 8:15		
	SW-846 9060A				08/18/2023 22:16
23070389-022F	APW18	07/25/2023 9:42	07/26/2023 8:15		
	SW-846 9060A				08/14/2023 16:15
23070389-101A	SG02	08/07/2023 11:45	08/17/2023 14:00		
	Field Elevation Measurements				08/07/2023 11:45
23070389-102A	XPW01	07/24/2023 12:30	07/25/2023 8:40		
	Ferrous Iron by CHEMets Kit				07/24/2023 12:30
	Field Elevation Measurements				07/24/2023 12:30
	Standard Methods 2130 B Field				07/24/2023 12:30
	Standard Methods 18th Ed. 2580 B Field				07/24/2023 12:30
	Standard Methods 2320 B (Total) 1997, 2011				07/27/2023 14:49
	Standard Methods 2320 B 1997, 2011				07/27/2023 14:49
	Standard Methods 2510 B Field				07/24/2023 12:30
	Standard Methods 2540 C (Total) 1997, 2011				07/26/2023 9:37
	Standard Methods 2550 B Field				07/24/2023 12:30
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/25/2023 15:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 19:46
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-O G Field				07/24/2023 12:30
	Standard Methods 4500-P E 1999				07/26/2023 0:00
	Standard Methods 4500-P E 1999, 2011				07/26/2023 7:42
	SW-846 9036 (Total)				08/02/2023 13:45

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9040B Field				07/24/2023 12:30
	SW-846 9214 (Total)				07/26/2023 12:18
	SW-846 9251 (Total)				07/27/2023 18:24
23070389-102B	XPW01	07/24/2023 12:30	07/25/2023 8:40		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 14:55
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/27/2023 14:55
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/25/2023 15:52
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 20:17
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 7:43
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 0:00
	SW-846 9036 (Dissolved)				08/02/2023 18:15
	SW-846 9251 (Dissolved)				07/27/2023 15:49
23070389-102C	XPW01	07/24/2023 12:30	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/26/2023 14:24
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/28/2023 18:27
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/31/2023 13:37
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	08/02/2023 0:41
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/16/2023 16:09
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/18/2023 11:42
	SW-846 7470A (Total)			07/25/2023 18:14	07/26/2023 15:15
23070389-102D	XPW01	07/24/2023 12:30	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:16
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:18
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:25
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 18:58
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/18/2023 12:58
23070389-102E	XPW01	07/24/2023 12:30	07/25/2023 8:40		
	SW-846 9060A				08/18/2023 22:41
23070389-102F	XPW01	07/24/2023 12:30	07/25/2023 8:40		
	SW-846 9060A				08/24/2023 19:37
23070389-103A	XPW02	07/24/2023 11:30	07/25/2023 8:40		
	Ferrous Iron by CHEMets Kit				07/24/2023 11:30
	Field Elevation Measurements				07/24/2023 11:30
	Standard Methods 2130 B Field				07/24/2023 11:30
	Standard Methods 18th Ed. 2580 B Field				07/24/2023 11:30
	Standard Methods 2320 B (Total) 1997, 2011				07/26/2023 11:06

Dates Report

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 2320 B 1997, 2011				07/26/2023 11:06
	Standard Methods 2510 B Field				07/24/2023 11:30
	Standard Methods 2540 C (Total) 1997, 2011				07/26/2023 9:37
	Standard Methods 2550 B Field				07/24/2023 11:30
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/25/2023 15:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 19:48
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-O G Field				07/24/2023 11:30
	Standard Methods 4500-P E 1999				07/26/2023 0:00
	Standard Methods 4500-P E 1999, 2011				07/26/2023 7:45
	SW-846 9036 (Total)				07/27/2023 18:31
	SW-846 9040B Field				07/24/2023 11:30
	SW-846 9214 (Total)				07/26/2023 12:19
	SW-846 9251 (Total)				07/27/2023 18:26
23070389-103B	XPW02	07/24/2023 11:30	07/25/2023 8:40		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 12:00
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 12:00
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/25/2023 15:48
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 20:19
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 7:46
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 0:00
	SW-846 9036 (Dissolved)				07/27/2023 16:20
	SW-846 9251 (Dissolved)				07/27/2023 16:16
23070389-103C	XPW02	07/24/2023 11:30	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/26/2023 14:28
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/28/2023 18:28
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	07/28/2023 7:54
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/16/2023 16:20
	SW-846 7470A (Total)			07/25/2023 18:14	07/27/2023 8:46
23070389-103D	XPW02	07/24/2023 11:30	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:19
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:21
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:35
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/16/2023 19:03
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/26/2023 16:58	09/18/2023 13:03
23070389-103E	XPW02	07/24/2023 11:30	07/25/2023 8:40		

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9060A				08/18/2023 23:01
23070389-103F	XPW02	07/24/2023 11:30	07/25/2023 8:40		
	SW-846 9060A				08/14/2023 16:27
23070389-104A	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	Ferrous Iron by CHEMets Kit				07/26/2023 14:33
	Field Elevation Measurements				07/26/2023 14:33
	Standard Methods 2130 B Field				07/26/2023 14:33
	Standard Methods 18th Ed. 2580 B Field				07/26/2023 14:33
	Standard Methods 2320 B (Total) 1997, 2011				07/28/2023 10:27
	Standard Methods 2320 B 1997, 2011				07/28/2023 10:27
	Standard Methods 2510 B Field				07/26/2023 14:33
	Standard Methods 2540 C (Total) 1997, 2011				08/01/2023 11:14
	Standard Methods 2550 B Field				07/26/2023 14:33
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/27/2023 16:51
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/27/2023 16:22
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/27/2023 16:22
	Standard Methods 4500-O G Field				07/26/2023 14:33
	Standard Methods 4500-P E 1999				07/28/2023 12:59
	Standard Methods 4500-P E 1999, 2011				07/28/2023 13:01
	SW-846 9036 (Total)				08/03/2023 21:29
	SW-846 9040B Field				07/26/2023 14:33
	SW-846 9214 (Total)				07/28/2023 11:03
	SW-846 9251 (Total)				08/03/2023 21:25
23070389-104B	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/28/2023 9:14
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/28/2023 9:14
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/27/2023 16:50
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/27/2023 16:17
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/27/2023 16:17
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/28/2023 13:01
	Standard Methods 4500-P E (Dissolved) 1999				07/28/2023 12:59
	SW-846 9036 (Dissolved)				07/31/2023 23:04
	SW-846 9251 (Dissolved)				07/31/2023 23:00
23070389-104C	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/01/2023 18:27
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/03/2023 15:30
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/27/2023 14:44	08/04/2023 12:41

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/29/2023 10:02
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	07/31/2023 16:34
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/27/2023 14:44	08/02/2023 4:12
	SW-846 7470A (Total)			07/31/2023 12:42	08/01/2023 9:57
23070389-104D	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/01/2023 17:32
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/03/2023 13:31
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/28/2023 11:50	08/04/2023 12:13
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			07/28/2023 11:50	09/18/2023 16:19
23070389-104E	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	SW-846 9060A				08/14/2023 23:51
23070389-104F	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	SW-846 9060A				08/14/2023 16:34
23070389-105A	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	Ferrous Iron by CHEMets Kit				07/24/2023 13:00
	Field Elevation Measurements				07/24/2023 13:00
	Standard Methods 2130 B Field				07/24/2023 13:00
	Standard Methods 18th Ed. 2580 B Field				07/24/2023 13:00
	Standard Methods 2320 B (Total) 1997, 2011				07/26/2023 11:18
	Standard Methods 2320 B 1997, 2011				07/26/2023 11:18
	Standard Methods 2510 B Field				07/24/2023 13:00
	Standard Methods 2540 C (Total) 1997, 2011				07/27/2023 11:34
	Standard Methods 2550 B Field				07/24/2023 13:00
	Standard Methods 4500-NO2 B (Total) 2000, 2011				07/25/2023 15:44
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 19:50
	Standard Methods 4500-NO3 F (Total) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-O G Field				07/24/2023 13:00
	Standard Methods 4500-P E 1999				07/26/2023 0:00
	Standard Methods 4500-P E 1999, 2011				07/26/2023 7:48
	SW-846 9036 (Total)				08/02/2023 14:07
	SW-846 9040B Field				07/24/2023 13:00
	SW-846 9214 (Total)				07/26/2023 12:21
	SW-846 9251 (Total)				07/27/2023 19:01
23070389-105B	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 12:05
	Standard Methods 2320 B (Dissolved) 1997, 2011				07/26/2023 12:05
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				07/25/2023 15:52

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 20:21
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				07/25/2023 21:05
	Standard Methods 4500-P E (Dissolved) 1999, 2011				07/26/2023 7:48
	Standard Methods 4500-P E (Dissolved) 1999				07/26/2023 0:00
	SW-846 9036 (Dissolved)				08/02/2023 12:58
	SW-846 9251 (Dissolved)				07/27/2023 16:37
23070389-105C	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/26/2023 14:34
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/28/2023 18:17
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	07/31/2023 13:34
	SW-846 3005A, 6010B, Metals by ICP (Total)			07/25/2023 17:45	08/11/2023 12:45
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	08/02/2023 0:48
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/16/2023 16:15
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			07/25/2023 17:45	09/18/2023 11:47
	SW-846 7470A (Total)			07/25/2023 18:14	07/26/2023 15:20
23070389-105D	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:33
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	07/28/2023 21:35
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:39
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/02/2023 17:40
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			07/26/2023 16:58	08/11/2023 12:43
23070389-105E	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	SW-846 9060A				08/24/2023 18:46
23070389-105F	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	SW-846 9060A				08/24/2023 19:50
23070389-106A	XSG01	08/07/2023 11:35	08/16/2023 15:29		
	Field Elevation Measurements				08/07/2023 11:35
23070389-107A	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	Standard Methods 2320 B (Total) 1997, 2011				08/03/2023 11:33
	Standard Methods 2320 B 1997, 2011				08/03/2023 11:33
	Standard Methods 2540 C (Total) 1997, 2011				08/03/2023 11:11
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/02/2023 15:01
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/02/2023 15:43
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/02/2023 15:43
	Standard Methods 4500-P E 1999				08/02/2023 12:56
	Standard Methods 4500-P E 1999, 2011				08/02/2023 12:51
	SW-846 9036 (Total)				08/05/2023 2:19

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 9214 (Total)				08/04/2023 11:09
	SW-846 9251 (Total)				08/05/2023 2:18
23070389-107B	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/03/2023 11:49
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/03/2023 11:49
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/02/2023 14:58
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:38
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/02/2023 15:38
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/02/2023 12:51
	Standard Methods 4500-P E (Dissolved) 1999				08/02/2023 12:56
	SW-846 9036 (Dissolved)				08/03/2023 22:58
	SW-846 9214 (Dissolved)				08/04/2023 11:17
	SW-846 9251 (Dissolved)				08/03/2023 22:58
23070389-107C	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/02/2023 12:31	08/04/2023 10:40
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	08/04/2023 8:28
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/16/2023 2:01
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/02/2023 12:31	09/18/2023 8:53
	SW-846 7470A (Total)			08/03/2023 10:35	08/04/2023 9:56
23070389-107D	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/08/2023 14:17	08/09/2023 19:06
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	08/11/2023 11:41
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/14/2023 2:08
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/08/2023 14:17	09/14/2023 22:25
	SW-846 7470A (Dissolved)			08/03/2023 10:35	08/04/2023 9:58
23070389-107E	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 9012A (Total)			08/07/2023 12:57	08/08/2023 10:10
23070389-107F	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 9060A				08/15/2023 0:03
23070389-107G	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	SW-846 9060A				08/14/2023 16:46
23070389-107H	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	EPA 600 350.1 (Dissolved)				08/02/2023 17:00
23070389-116A	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	Ferrous Iron by CHEMets Kit				08/17/2023 11:23
	Field Elevation Measurements				08/17/2023 11:23
	Standard Methods 2130 B Field				08/17/2023 11:23

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	Standard Methods 18th Ed. 2580 B Field				08/17/2023 11:23
	Standard Methods 2320 B (Total) 1997, 2011				08/18/2023 13:41
	Standard Methods 2320 B 1997, 2011				08/18/2023 13:41
	Standard Methods 2510 B Field				08/17/2023 11:23
	Standard Methods 2540 C (Total) 1997, 2011				08/21/2023 10:24
	Standard Methods 2550 B Field				08/17/2023 11:23
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/18/2023 20:31
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/18/2023 15:23
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/18/2023 15:23
	Standard Methods 4500-O G Field				08/17/2023 11:23
	Standard Methods 4500-P E 1999				08/18/2023 14:35
	Standard Methods 4500-P E 1999, 2011				08/18/2023 9:15
	SW-846 9036 (Total)				08/23/2023 23:44
	SW-846 9040B Field				08/17/2023 11:23
	SW-846 9214 (Total)				08/21/2023 9:07
	SW-846 9251 (Total)				08/23/2023 23:40
23070389-116B	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 13:49
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 13:49
	Standard Methods 2550 B Field				08/17/2023 11:23
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/18/2023 20:30
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/18/2023 15:18
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/18/2023 15:18
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/18/2023 9:18
	Standard Methods 4500-P E (Dissolved) 1999				08/18/2023 14:35
	SW-846 9036 (Dissolved)				08/23/2023 16:04
	SW-846 9251 (Dissolved)				08/21/2023 15:21
23070389-116C	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/22/2023 15:19	08/23/2023 12:29
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/22/2023 15:19	08/31/2023 17:44
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/22/2023 15:19	09/10/2023 19:25
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/22/2023 15:19	09/16/2023 14:58
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/18/2023 13:03	09/20/2023 1:35
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/18/2023 13:03	09/20/2023 13:19
	SW-846 7470A (Total)			08/22/2023 10:04	08/23/2023 20:55
23070389-116D	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 18:38	08/18/2023 17:27
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 18:38	08/22/2023 11:13

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 18:38	09/17/2023 1:46
23070389-116E	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 9060A				08/19/2023 0:23
23070389-116F	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 9060A				08/19/2023 0:10
23070389-117A	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		
	Ferrous Iron by CHEMets Kit				08/17/2023 11:23
	Field Elevation Measurements				08/17/2023 11:23
	Standard Methods 2130 B Field				08/17/2023 11:23
	Standard Methods 18th Ed. 2580 B Field				08/17/2023 11:23
	Standard Methods 2320 B (Total) 1997, 2011				08/18/2023 13:57
	Standard Methods 2320 B 1997, 2011				08/18/2023 13:57
	Standard Methods 2510 B Field				08/17/2023 11:23
	Standard Methods 2540 C (Total) 1997, 2011				08/21/2023 10:24
	Standard Methods 2550 B Field				08/17/2023 11:23
	Standard Methods 4500-NO2 B (Total) 2000, 2011				08/18/2023 20:31
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/18/2023 15:25
	Standard Methods 4500-NO3 F (Total) 2000, 2011				08/18/2023 15:25
	Standard Methods 4500-O G Field				08/17/2023 11:23
	Standard Methods 4500-P E 1999				08/18/2023 14:35
	Standard Methods 4500-P E 1999, 2011				08/18/2023 9:20
	SW-846 9036 (Total)				08/23/2023 23:53
	SW-846 9040B Field				08/17/2023 11:23
	SW-846 9214 (Total)				08/21/2023 9:10
	SW-846 9251 (Total)				08/23/2023 23:48
23070389-117B	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 14:06
	Standard Methods 2320 B (Dissolved) 1997, 2011				08/18/2023 14:06
	Standard Methods 2550 B Field				08/17/2023 11:23
	Standard Methods 4500-NO2 B (Dissolved) 2000, 2011				08/18/2023 20:30
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/18/2023 15:21
	Standard Methods 4500-NO3 F (Dissolved) 2000, 2011				08/18/2023 15:21
	Standard Methods 4500-P E (Dissolved) 1999, 2011				08/18/2023 9:24
	Standard Methods 4500-P E (Dissolved) 1999				08/18/2023 14:35
	SW-846 9036 (Dissolved)				08/22/2023 0:56
	SW-846 9251 (Dissolved)				08/23/2023 16:25
23070389-117C	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			**Prep Date/Time**	**Analysis Date/Time**
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/18/2023 10:00	08/21/2023 19:25
	SW-846 3005A, 6010B, Metals by ICP (Total)			08/18/2023 10:00	08/23/2023 9:59
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/18/2023 10:00	08/30/2023 14:10
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			08/18/2023 10:00	09/16/2023 14:42
	SW-846 3005A, 6020A, Metals by ICPMS (Total)			09/18/2023 10:24	09/20/2023 13:30
	SW-846 7470A (Total)			08/22/2023 10:04	08/23/2023 20:57
23070389-117D	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 18:38	08/18/2023 17:13
	SW-846 3005A, 6010B, Metals by ICP (Dissolved)			08/17/2023 18:38	08/22/2023 11:15
	SW-846 3005A, 6020A, Metals by ICPMS (Dissolved)			08/17/2023 18:38	09/17/2023 1:51
23070389-117E	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 9060A				08/19/2023 0:29
23070389-117F	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		
	SW-846 9060A				08/19/2023 0:16

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-1 230724

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1380**	1412	0	98.1	90	110	07/24/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-10 230817

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1430**	1412	0	101.3	90	110	08/17/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-2 230725

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.0	90	110	07/25/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-3 230725

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.1	90	110	07/25/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-4 230726

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.2	90	110	07/26/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-6 230727

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.9	90	110	07/27/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-7 230731

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.7	90	110	07/31/2023

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-8 230801

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.4	90	110	08/01/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R334750 **SampType:** LCS Units **µS/cm**
SampID: LCS-9 230816

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.9	90	110	08/16/2023

SW-846 9040B FIELD

Batch R334750 **SampType:** LCS Units
SampID: LCS- 2 230725

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.03**	7.000	0	100.4	98.57	101.4	07/25/2023

Batch R334750 **SampType:** LCS Units
SampID: LCS-1 230724

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**6.98**	7.000	0	99.7	98.57	101.4	07/24/2023

Batch R334750 **SampType:** LCS Units
SampID: LCS-10 230817

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	08/17/2023

Batch R334750 **SampType:** LCS Units
SampID: LCS-3 230725

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	07/25/2023

Batch R334750 **SampType:** LCS Units
SampID: LCS-4 230726

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.03**	7.000	0	100.4	98.57	101.4	07/26/2023

Batch R334750 **SampType:** LCS Units
SampID: LCS-5 230727

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.01**	7.000	0	100.1	98.57	101.4	07/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9040B FIELD

Batch R334750 **SampType:** LCS Units

SampID: LCS-6 230727

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	07/27/2023

Batch R334750 **SampType:** LCS Units

SampID: LCS-7 230731

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.03**	7.000	0	100.4	98.57	101.4	07/31/2023

Batch R334750 **SampType:** LCS Units

SampID: LCS-8 230801

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	08/01/2023

Batch R334750 **SampType:** LCS Units

SampID: LCS-9 230816

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	08/16/2023

EPA 600 350.1 (DISSOLVED)

Batch R333244 **SampType:** MBLK Units **mg/L**

SampID: MB-R333244

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**< 0.10**	0.0270	0	0	-100	100	07/28/2023

Batch R333244 **SampType:** LCS Units **mg/L**

SampID: LCS-R333244

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.01**	1.000	0	100.9	90	110	07/28/2023

Batch R333244 **SampType:** MS Units **mg/L**

SampID: 23070389-043EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.98**	2.000	0.1180	93.0	90	110	07/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

EPA 600 350.1 (DISSOLVED)

Batch R333244 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-043EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.99**	2.000	0.1180	93.6	1.978	0.55	07/28/2023

Batch R333244 **SampType:** MS Units **mg/L**
SampID: 23070389-054EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.89**	2.000	0.05000	92.2	90	110	07/28/2023

Batch R333244 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-054EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.88**	2.000	0.05000	91.4	1.894	0.90	07/28/2023

Batch R333317 **SampType:** MBLK Units **mg/L**
SampID: MB-R333317

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**< 0.10**	0.0270	0	0	-100	100	07/31/2023

Batch R333317 **SampType:** LCS Units **mg/L**
SampID: LCS-R333317

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.02**	1.000	0	102.1	90	110	07/31/2023

Batch R333317 **SampType:** MS Units **mg/L**
SampID: 23070389-028EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.54**	2.000	0.7110	91.4	90	110	07/31/2023

Batch R333317 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-028EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.56**	2.000	0.7110	92.2	2.539	0.63	07/31/2023

Batch R334442 **SampType:** MBLK Units **mg/L**
SampID: MB-R334442

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**< 0.10**	0.0270	0	0	-100	100	08/02/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

EPA 600 350.1 (DISSOLVED)

Batch R334442 **SampType:** LCS Units **mg/L**
SampID: LCS-R334442

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.02**	1.000	0	101.5	90	110	08/02/2023

Batch R334442 **SampType:** MS Units **mg/L**
SampID: 23070389-048EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.92**	2.000	0	96.2	90	110	08/02/2023

Batch R334442 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-048EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.92**	2.000	0	95.8	1.925	0.52	08/02/2023

Batch R335212 **SampType:** MBLK Units **mg/L**
SampID: MB-R335212

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**< 0.10**	0.0270	0	0	-100	100	08/18/2023

Batch R335212 **SampType:** LCS Units **mg/L**
SampID: LCS-R335212

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.02**	1.000	0	102.1	90	110	08/18/2023

Batch R335212 **SampType:** MS Units **mg/L**
SampID: 23070389-112EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.86**	2.000	0	93.2	90	110	08/18/2023

Batch R335212 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-112EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.83**	2.000	0	91.7	1.863	1.62	08/18/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R333199 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/26/2023

Batch R333199 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**976**	1000	0	97.6	90	110	07/26/2023

Batch R333199 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-103ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**358**				360.0	0.56	07/26/2023

Batch R333268 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	07/27/2023

Batch R333268 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**954**	1000	0	95.4	90	110	07/27/2023

Batch R333268 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-005ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**3020**				2882	4.61	07/27/2023

Batch R334473 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/01/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/01/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/01/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R334473 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**978**	1000	0	97.8	90	110	08/01/2023
Total Dissolved Solids		20		**972**	1000	0	97.2	90	110	08/01/2023
Total Dissolved Solids		20		**912**	1000	0	91.2	90	110	08/01/2023

Batch R334473 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-002ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		**2050**				2140	4.30	08/01/2023

Batch R334473 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-100ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		**1240**				1225	0.81	08/01/2023

Batch R334530 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/02/2023

Batch R334530 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**930**	1000	0	93.0	90	110	08/02/2023

Batch R334530 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-014ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**1060**				1056	0.19	08/02/2023

Batch R334586 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/03/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/03/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R334586 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**928**	1000	0	92.8	90	110	08/03/2023
Total Dissolved Solids		20		**936**	1000	0	93.6	90	110	08/03/2023

Batch R334586 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-025ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		**875**				875.0	0.00	08/03/2023

Batch R334586 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-052ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		**985**				985.0	0.00	08/03/2023

Batch R335351 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	08/21/2023

Batch R335351 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**966**	1000	0	96.6	90	110	08/21/2023

Batch R335351 **SampType:** DUP Units **mg/L** RPD Limit **10**
SampID: 23070389-112ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**558**				548.0	1.81	08/21/2023

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R333091 **SampType:** MS Units **mg/L**
SampID: 23070389-016BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.46**	0.5000	0	92.0	85	115	07/25/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R333091 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-016BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.6	0.4600	9.92	07/25/2023

Batch R333091 **SampType:** MS Units **mg/L**
SampID: 23070389-103BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.46**	0.5000	0	93.0	85	115	07/25/2023

Batch R333091 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-103BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.44**	0.5000	0	87.0	0.4650	6.67	07/25/2023

Batch R333148 **SampType:** MS Units **mg/L**
SampID: 23070389-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.6	85	115	07/26/2023

Batch R333148 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-005BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	98.0	0.5030	2.62	07/26/2023

Batch R333148 **SampType:** MS Units **mg/L**
SampID: 23070389-009BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	99.0	85	115	07/26/2023

Batch R333148 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-009BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	99.2	0.4950	0.20	07/26/2023

Batch R333148 **SampType:** MS Units **mg/L**
SampID: 23070389-043BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	98.8	85	115	07/27/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

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Batch R333148 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-043BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.46**	0.5000	0	92.2	0.4940	6.91	07/27/2023

Batch R333292 **SampType:** MS Units **mg/L**
SampID: 23070389-100BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.4	85	115	07/28/2023

Batch R333292 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-100BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.4	0.5070	0.00	07/28/2023

Batch R334350 **SampType:** MS Units **mg/L**
SampID: 23070389-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.4	85	115	08/01/2023

Batch R334350 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	101.0	0.5070	0.40	08/01/2023

Batch R334350 **SampType:** MS Units **mg/L**
SampID: 23070389-007BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.0	85	115	08/01/2023

Batch R334350 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-007BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	100.8	0.5000	0.80	08/01/2023

Batch R334479 **SampType:** MS Units **mg/L**
SampID: 23070389-019BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	98.4	85	115	08/02/2023

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Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
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Batch R334479 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-019BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	98.4	0.4920	0.00	08/02/2023

Batch R335184 **SampType:** MS Units **mg/L**
SampID: 23070389-111BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.54**	0.5000	0	108.6	85	115	08/17/2023

Batch R335184 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-111BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.54**	0.5000	0	108.2	0.5430	0.37	08/17/2023

Batch R335184 **SampType:** MS Units **mg/L**
SampID: 23070389-112BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.54**	0.5000	0	108.2	85	115	08/17/2023

Batch R335184 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-112BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.54**	0.5000	0	108.2	0.5410	0.00	08/17/2023

Batch R335231 **SampType:** MS Units **mg/L**
SampID: 23070389-116BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.53**	0.5000	0	106.4	85	115	08/18/2023

Batch R335231 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-116BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.53**	0.5000	0	105.8	0.5320	0.57	08/18/2023

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

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Batch R333091 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/25/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/25/2023

Batch R333091 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	98.8	90	110	07/25/2023
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	98.8	90	110	07/25/2023

Batch R333148 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/26/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/26/2023

Batch R333148 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.27**	1.250	0	101.6	90	110	07/26/2023
Nitrogen, Nitrite (as N)		0.25		**1.27**	1.250	0	101.6	90	110	07/26/2023

Batch R333292 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/28/2023

Batch R333292 **SampType:** MBLK Units **mg/Kg**
SampID: MB-R333292

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.50		**< 0.50**	0.0250	0	0	-100	100	07/28/2023

Batch R333292 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	99.2	90	110	07/28/2023

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

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Batch R333292 **SampType:** LCS Units **mg/Kg**
SampID: LCS-R333292

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		2.50	J	**1.2**	1.250	0	99.2	90	110	07/28/2023

Batch R334350 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/31/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	07/31/2023

Batch R334350 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	98.8	90	110	07/31/2023
Nitrogen, Nitrite (as N)		0.25		**1.24**	1.250	0	98.8	90	110	07/31/2023

Batch R334479 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	08/02/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	08/02/2023

Batch R334479 **SampType:** MBLK Units **mg/Kg**
SampID: MBLK-230720

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.50		**< 0.50**	0.0250	0	0	-100	100	08/02/2023

Batch R334479 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.20**	1.250	0	96.4	90	110	08/02/2023
Nitrogen, Nitrite (as N)		0.25		**1.20**	1.250	0	95.6	90	110	08/02/2023

Batch R335184 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	08/17/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	08/17/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

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Batch R335184 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.29**	1.250	0	103.2	90	110	08/17/2023
Nitrogen, Nitrite (as N)		0.25		**1.29**	1.250	0	103.2	90	110	08/17/2023

Batch R335231 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	08/18/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	08/18/2023

Batch R335231 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.36**	1.250	0	108.4	90	110	08/18/2023
Nitrogen, Nitrite (as N)		0.25		**1.36**	1.250	0	108.4	90	110	08/18/2023

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R333082 **SampType:** MS Units **mg/L**
SampID: 23070389-015BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.221**	0.2500	0	88.4	85	115	07/25/2023

Batch R333082 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-015BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.222**	0.2500	0	88.8	0.2210	0.45	07/25/2023

Batch R333082 **SampType:** MS Units **mg/L**
SampID: 23070389-105BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.418**	0.2500	0.1910	90.8	85	115	07/25/2023

Batch R333082 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-105BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.421**	0.2500	0.1910	92.0	0.4180	0.72	07/25/2023

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Client: Ramboll
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Client Project: NEW-23Q3
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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R333187 **SampType:** MS Units **mg/L**
SampID: 23070389-021BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.242**	0.2500	0	96.8	85	115	07/26/2023

Batch R333187 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-021BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.238**	0.2500	0	95.2	0.2420	1.67	07/26/2023

Batch R333252 **SampType:** MS Units **mg/L**
SampID: 23070389-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**4.88**	1.250	3.565	105.4	85	115	07/27/2023

Batch R333252 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**4.78**	1.250	3.565	97.1	4.883	2.15	07/27/2023

Batch R333300 **SampType:** MS Units **mg/L**
SampID: 23070389-100BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		**1.62**	0.5000	1.109	101.6	85	115	07/28/2023

Batch R333300 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-100BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		**1.60**	0.5000	1.109	97.2	1.617	1.37	07/28/2023

Batch R334435 **SampType:** MS Units **mg/L**
SampID: 23070389-012BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.232**	0.2500	0	92.8	85	115	08/01/2023

Batch R334435 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-012BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.237**	0.2500	0	94.8	0.2320	2.13	08/01/2023

Teklab, Inc.
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Client: Ramboll **Work Order:** 23070389

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Batch R334535 **SampType:** MS Units **mg/L**
SampID: 23070389-038BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.260**	0.2500	0.01000	100.0	85	115	08/02/2023

Batch R334535 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-038BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.257**	0.2500	0.01000	98.8	0.2600	1.16	08/02/2023

Batch R335191 **SampType:** MS Units **mg/L**
SampID: 23070389-113BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.248**	0.2500	0.009000	95.6	85	115	08/17/2023

Batch R335191 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-113BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.248**	0.2500	0.009000	95.6	0.2480	0.00	08/17/2023

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Batch R333082 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						07/25/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	07/25/2023

Batch R333082 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.500**	0.5000	0	100.0	90	110	07/25/2023

Batch R333082 **SampType:** MS Units **mg/L**
SampID: 23070389-016AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.262**	0.2500	0.02700	94.0	85	115	07/25/2023

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Client: Ramboll
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Batch R333082 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-016AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.258**	0.2500	0.02700	92.4	0.2620	1.54	07/25/2023

Batch R333187 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						07/26/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	07/26/2023

Batch R333187 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.487**	0.5000	0	97.4	90	110	07/26/2023

Batch R333187 **SampType:** MS Units **mg/L**
SampID: 23070389-009AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.270**	0.2500	0.02700	97.2	85	115	07/26/2023

Batch R333187 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-009AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.270**	0.2500	0.02700	97.2	0.2700	0.00	07/26/2023

Batch R333252 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						07/27/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	07/27/2023

Batch R333252 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.510**	0.5000	0	102.0	90	110	07/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R333252 **SampType:** MS Units **mg/L**
SampID: 23070389-104AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.240**	0.2500	0	96.0	85	115	07/27/2023

Batch R333252 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-104AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.243**	0.2500	0	97.2	0.2400	1.24	07/27/2023

Batch R333300 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						07/28/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	07/28/2023

Batch R333300 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.505**	0.5000	0	101.0	90	110	07/28/2023

Batch R334435 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						08/01/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	08/01/2023

Batch R334435 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.482**	0.5000	0	96.4	90	110	08/01/2023

Batch R334435 **SampType:** MS Units **mg/L**
SampID: 23070389-013AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.232**	0.2500	0	92.8	85	115	08/01/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R334435 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-013AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.232**	0.2500	0	92.8	0.2320	0.00	08/01/2023

Batch R334435 **SampType:** MS Units **mg/L**
SampID: 23070389-020AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.230**	0.2500	0	92.0	85	115	08/01/2023

Batch R334435 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-020AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.228**	0.2500	0	91.2	0.2300	0.87	08/01/2023

Batch R334535 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						08/02/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	08/02/2023

Batch R334535 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.530**	0.5000	0	106.0	90	110	08/02/2023

Batch R335191 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						08/17/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	08/17/2023

Batch R335191 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.508**	0.5000	0	101.6	90	110	08/17/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R335253 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						08/18/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	08/18/2023

Batch R335253 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.516**	0.5000	0	103.2	90	110	08/18/2023

Batch R335253 **SampType:** MS Units **mg/L**
SampID: 23070389-117AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.293**	0.2500	0.04100	100.8	85	115	08/18/2023

Batch R335253 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-117AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.295**	0.2500	0.04100	101.6	0.2930	0.68	08/18/2023

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R333097 **SampType:** MS Units **mg/L**
SampID: 23070389-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.052**	0.0500	0	104.0	85	115	07/26/2023

Batch R333097 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-005BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.056**	0.0500	0	112.0	0.05200	7.41	07/26/2023

Batch R333097 **SampType:** MS Units **mg/L**
SampID: 23070389-103BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.152**	0.0500	0.1030	98.0	85	115	07/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R333097 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-103BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.154**	0.0500	0.1030	102.0	0.1520	1.31	07/26/2023

Batch R333282 **SampType:** MS Units **mg/L**
SampID: 23070389-104BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.069**	0.0500	0.01800	102.0	85	115	07/28/2023

Batch R333282 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-104BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.074**	0.0500	0.01800	112.0	0.06900	6.99	07/28/2023

Batch R334477 **SampType:** MS Units **mg/L**
SampID: 23070389-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.108**	0.0500	0.05100	114.0	85	115	08/01/2023

Batch R334477 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.103**	0.0500	0.05100	104.0	0.1080	4.74	08/01/2023

Batch R334477 **SampType:** MS Units **mg/L**
SampID: 23070389-007BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.062**	0.0500	0.005000	114.0	85	115	08/01/2023

Batch R334477 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-007BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.059**	0.0500	0.005000	108.0	0.06200	4.96	08/01/2023

Batch R334477 **SampType:** MS Units **mg/L**
SampID: 23070389-107BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.043**	0.0500	0	86.0	85	115	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-P E (DISSOLVED) 1999, 2011

Batch R334477 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-107BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.047**	0.0500	0	94.0	0.04300	8.89	08/02/2023

Batch R335237 **SampType:** MS Units **mg/L**
SampID: 23070389-116BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.052**	0.0500	0	104.0	85	115	08/18/2023

Batch R335237 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-116BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.056**	0.0500	0	112.0	0.05200	7.41	08/18/2023

Batch R335237 **SampType:** MS Units **mg/L**
SampID: 23070389-117BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.055**	0.0500	0	110.0	85	115	08/18/2023

Batch R335237 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-117BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.054**	0.0500	0	108.0	0.05500	1.83	08/18/2023

STANDARD METHODS 4500-P E 1999, 2011

Batch R333097 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	07/26/2023

Batch R333097 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.097**	0.1000	0	97.0	90	110	07/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-P E 1999, 2011

Batch R333097 **SampType:** MS Units **mg/L**
SampID: 23070389-016AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.049**	0.0500	0	98.0	85	115	07/26/2023

Batch R333097 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-016AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.053**	0.0500	0	106.0	0.04900	7.84	07/26/2023

Batch R333282 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	07/28/2023

Batch R333282 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.103**	0.1000	0	103.0	90	110	07/28/2023

Batch R334477 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	08/01/2023

Batch R334477 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.108**	0.1000	0	108.0	90	110	08/01/2023

Batch R334531 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	08/03/2023

Batch R334531 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.103**	0.1000	0	103.0	90	110	08/03/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

STANDARD METHODS 4500-P E 1999, 2011

Batch R335237 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**< 0.010**	0.0020	0	0	-100	100	08/18/2023

Batch R335237 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Phosphorus, Orthophosphate (as P)		0.010		**0.103**	0.1000	0	103.0	90	110	08/18/2023

SW-846 9012A (TOTAL)

Batch 210000 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230726 TCN3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	07/27/2023

Batch 210000 **SampType:** LCS Units **mg/L**
SampID: LCS 230726 TCN3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	97.9	90	110	07/27/2023

Batch 210000 **SampType:** MS Units **mg/L**
SampID: 23070389-065EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.028**	0.0250	0.004275	93.5	75	125	07/27/2023

Batch 210000 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-065EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.029**	0.0250	0.004275	97.6	0.02766	3.62	07/27/2023

Batch 210084 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230727 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	07/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9012A (TOTAL)

Batch 210084 **SampType:** LCS Units **mg/L**
SampID: LCS 230727 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	98.5	90	110	07/28/2023

Batch 210084 **SampType:** MS Units **mg/L**
SampID: 23070389-002DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	96.6	75	125	07/28/2023

Batch 210084 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-002DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	100.3	0.02415	3.80	07/28/2023

Batch 210146 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230728 TCN4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	07/31/2023

Batch 210146 **SampType:** LCS Units **mg/L**
SampID: LCS 230728 TCN4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.023**	0.0250	0	90.9	90	110	07/31/2023

Batch 210146 **SampType:** MS Units **mg/L**
SampID: 23070389-100DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.027**	0.0250	0	106.0	75	125	07/31/2023

Batch 210146 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-100DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.027**	0.0250	0	108.3	0.02651	2.09	07/31/2023

Batch 210262 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230801 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9012A (TOTAL)

Batch 210262 **SampType:** LCS Units **mg/L**
SampID: LCS 230801 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.027**	0.0250	0	108.0	90	110	08/02/2023

Batch 210262 **SampType:** MS Units **mg/L**
SampID: 23070389-048DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.022**	0.0250	0	86.3	75	125	08/02/2023

Batch 210262 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-048DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	98.0	0.02157	12.74	08/02/2023

Batch 210422 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230804 TCN2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	08/07/2023

Batch 210422 **SampType:** LCS Units **mg/L**
SampID: LCS 230804 TCN2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.026**	0.0250	0	103.4	90	110	08/07/2023

Batch 210422 **SampType:** MS Units **mg/L**
SampID: 23070389-047DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	98.1	75	125	08/07/2023

Batch 210422 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-047DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	94.7	0.02452	3.53	08/07/2023

Batch 210472 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230807 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	08/08/2023

Teklab, Inc.
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Quality Control Results

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Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23

SW-846 9012A (TOTAL)

Batch 210472 **SampType:** LCS Units **mg/L**
SampID: LCS 230807 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	97.6	90	110	08/08/2023

Batch 210472 **SampType:** MS Units **mg/L**
SampID: 23070389-107EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	98.5	75	125	08/08/2023

Batch 210472 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-107EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	97.9	0.02462	0.61	08/08/2023

Batch 211020 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230817 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	08/18/2023

Batch 211020 **SampType:** LCS Units **mg/L**
SampID: LCS 230817 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.027**	0.0250	0	107.2	90	110	08/18/2023

Batch 211020 **SampType:** MS Units **mg/L**
SampID: 23070389-112DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.026**	0.0250	0	103.0	75	125	08/18/2023

Batch 211020 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-112DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.026**	0.0250	0	102.0	0.02576	1.01	08/18/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (DISSOLVED)

Batch R334506 **SampType:** MS Units **mg/L**
SampID: 23070389-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1810**	1000	921.6	89.0	85	115	08/02/2023

Batch R334506 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**1850**	1000	921.6	92.9	1812	2.12	08/02/2023

Batch R334506 **SampType:** MS Units **mg/L**
SampID: 23070389-054BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		1000		**4580**	2000	2690	94.6	85	115	08/02/2023

Batch R334506 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-054BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		1000		**4720**	2000	2690	101.3	4583	2.86	08/02/2023

Batch R334506 **SampType:** MS Units **mg/L**
SampID: 23070389-102BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		1000		**4390**	2000	2296	104.9	85	115	08/02/2023

Batch R334506 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-102BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		1000		**4480**	2000	2296	109.3	4394	1.97	08/02/2023

Batch R334506 **SampType:** MS Units **mg/L**
SampID: 23070389-105BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		2000	E	**12500**	4000	8979	88.1	85	115	08/02/2023

Batch R334506 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-105BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		2000	E	**12900**	4000	8979	98.2	12500	3.17	08/02/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (DISSOLVED)

Batch R334506 **SampType:** MS Units **mg/L**
SampID: 23070389-108BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		1000		**4760**	2000	2913	92.1	85	115	08/02/2023

Batch R334506 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-108BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		1000		**4850**	2000	2913	97.0	4755	2.03	08/02/2023

Batch R334639 **SampType:** MS Units **mg/L**
SampID: 23070389-047BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**2190**	1000	1110	108.1	85	115	08/05/2023

Batch R334639 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-047BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**2130**	1000	1110	101.9	2191	2.90	08/05/2023

Batch R335217 **SampType:** MS Units **mg/L**
SampID: 23070389-111BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**206**	100.0	108.7	96.9	85	115	08/17/2023

Batch R335217 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-111BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**197**	100.0	108.7	88.2	205.6	4.34	08/17/2023

Batch R335341 **SampType:** MS Units **mg/L**
SampID: 23070389-117BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		1000		**4570**	2000	2860	85.3	85	115	08/22/2023

Batch R335341 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-117BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		1000		**4800**	2000	2860	96.9	4566	4.94	08/22/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (TOTAL)

Batch R333276 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	07/27/2023

Batch R333276 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**18**	20.00	0	92.5	90	110	07/27/2023

Batch R334391 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	07/31/2023

Batch R334391 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	96.8	90	110	07/31/2023

Batch R334391 **SampType:** MS Units **mg/L**
SampID: 23070389-015AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**468**	200.0	267.6	100.2	85	115	07/31/2023

Batch R334391 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-015AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**465**	200.0	267.6	98.8	468.0	0.57	07/31/2023

Batch R334506 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/02/2023

Batch R334506 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	97.9	90	110	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (TOTAL)

Batch R334506 **SampType:** MS Units **mg/L**
SampID: 23070389-105AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		2000	E	**13000**	4000	9422	88.3	85	115	08/02/2023

Batch R334506 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-105AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		2000	E	**13200**	4000	9422	93.2	12960	1.50	08/02/2023

Batch R334559 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	7.620	0	0	-100	100	08/03/2023

Batch R334559 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	96.3	90	110	08/03/2023

Batch R334559 **SampType:** MS Units **mg/L**
SampID: 23070389-022AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**85**	40.00	49.42	90.2	85	115	08/03/2023

Batch R334559 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-022AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**89**	40.00	49.42	98.5	85.48	3.84	08/03/2023

Batch R334559 **SampType:** MS Units **mg/L**
SampID: 23070389-044AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		2000	E	**10200**	4000	6164	100.4	85	115	08/03/2023

Batch R334559 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-044AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		2000	E	**10100**	4000	6164	99.5	10180	0.36	08/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (TOTAL)

Batch R334639 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/04/2023

Batch R334639 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	101.2	90	110	08/04/2023

Batch R334639 **SampType:** MS Units **mg/L**
SampID: 23070389-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**305**	200.0	118.2	93.3	85	115	08/04/2023

Batch R334639 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**317**	200.0	118.2	99.2	304.8	3.82	08/04/2023

Batch R334639 **SampType:** MS Units **mg/L**
SampID: 23070389-050AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1480**	1000	534.0	94.1	85	115	08/04/2023

Batch R334639 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-050AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500	S	**1350**	1000	534.0	82.1	1475	8.53	08/04/2023

Batch R334769 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/08/2023

Batch R334769 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**21**	20.00	0	104.6	90	110	08/08/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (TOTAL)

Batch R334769 **SampType:** MS Units **mg/L**
SampID: 23070389-091AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20	S	**76**	40.00	48.84	68.6	85	115	08/08/2023

Batch R334769 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-091AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	S	**75**	40.00	48.84	64.8	76.29	2.01	08/08/2023

Batch R334863 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/10/2023

Batch R334863 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	97.6	90	110	08/10/2023

Batch R334945 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/11/2023

Batch R334945 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	101.2	90	110	08/11/2023

Batch R335217 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/17/2023

Batch R335217 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	99.6	90	110	08/17/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9036 (TOTAL)

Batch R335341 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/21/2023

Batch R335341 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	98.0	90	110	08/21/2023

Batch R335452 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	08/23/2023

Batch R335452 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	95.9	90	110	08/23/2023

SW-846 9050A

Batch R334775 **SampType:** LCS Units **µmhos/cm @25C**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Conductivity		10		**1280**	1412	0	90.7	90	110	08/09/2023

Batch R334775 **SampType:** LCS1 Units **µmhos/cm @25C**
SampID: LCS1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Conductivity		10		**6300**	6667	0	94.5	90	110	08/09/2023

Batch R334775 **SampType:** DUP Units **µmhos/cm @25C** RPD Limit **10**
SampID: 23070389-028ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Conductivity		10		**3850**				3920	1.80	08/09/2023

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9050A

Batch R334775 **SampType:** DUP Units **µmhos/cm @25C** RPD Limit **10**
SampID: 23070389-100ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Conductivity		10		**1640**				1630	0.61	08/09/2023

Batch R334775 **SampType:** DUP Units **µmhos/cm @25C** RPD Limit **10**
SampID: 23070389-110ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Conductivity		10		**1330**				1330	0.00	08/09/2023

SW-846 9060A

Batch R334837 **SampType:** MBLK Units **mg/L**
SampID: FILTER MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	08/09/2023

Batch R334837 **SampType:** MBLK Units **mg/L**
SampID: MB-R334837

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	0	0	08/09/2023

Batch R334837 **SampType:** LCS Units **mg/L**
SampID: LCS-R334837

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		5.0		**20.8**	21.60	0	96.2	90	110	08/09/2023

Batch R334837 **SampType:** MS Units **mg/L**
SampID: 23070389-005FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**8.9**	5.000	4.490	88.0	85	115	08/10/2023

Batch R334837 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-005FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		1.0		**8.8**	5.000	4.490	86.2	8.890	1.02	08/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9060A

Batch R334982 **SampType:** MBLK Units **mg/L**
SampID: FILTER MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	08/14/2023

Batch R334982 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		0.5		**< 0.5**	0.4500	0	0	-100	100	08/14/2023

Batch R334982 **SampType:** MBLK Units **mg/L**
SampID: MB-R334982

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	08/14/2023

Batch R334982 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		2.5		**21.0**	21.60	0	97.0	90	110	08/14/2023

Batch R334982 **SampType:** LCS Units **mg/L**
SampID: LCS-R334982

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		5.0		**21.0**	21.60	0	97.0	90	110	08/14/2023

Batch R334982 **SampType:** MS Units **mg/L**
SampID: 23070389-013FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		5.0		**52.4**	50.00	8.030	88.7	85	115	08/14/2023

Batch R334982 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-013FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		5.0		**51.8**	50.00	8.030	87.5	52.37	1.17	08/14/2023

Batch R334982 **SampType:** MS Units **mg/L**
SampID: 23070389-020FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0	E	**11.3**	5.000	6.530	96.2	85	115	08/14/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9060A

Batch R334982 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-020FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Dissolved Organic Carbon		1.0	E	**11.3**	5.000	6.530	95.4	11.34	0.35	08/14/2023

Batch R335281 **SampType:** MBLK Units **mg/L**
SampID: FILTER MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	08/18/2023

Batch R335281 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**	0.4500	0	0	-100	100	08/18/2023

Batch R335281 **SampType:** MBLK Units **mg/L**
SampID: MB-R335281

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	08/18/2023

Batch R335281 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		5.0		**21.4**	21.60	0	98.8	90	110	08/18/2023

Batch R335281 **SampType:** LCS Units **mg/L**
SampID: LCS-R335281

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		5.0		**21.4**	21.60	0	98.8	90	110	08/18/2023

Batch R335281 **SampType:** MS Units **mg/L**
SampID: 23070389-005EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0	S	**7.8**	5.000	3.580	83.8	85	115	08/18/2023

Batch R335281 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-005EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0	S	**7.6**	5.000	3.580	79.6	7.770	2.74	08/18/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9060A

Batch R335281 **SampType:** MS Units **mg/L**
SampID: 23070389-013EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		5.0	S	**28.5**	25.00	9.230	77.2	85	115	08/18/2023

Batch R335281 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-013EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		5.0	S	**29.5**	25.00	9.230	81.1	28.53	3.38	08/18/2023

Batch R335281 **SampType:** MS Units **mg/L**
SampID: 23070389-018EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.7**	5.000	1.390	85.8	85	115	08/18/2023

Batch R335281 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-018EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.7**	5.000	1.390	85.8	5.680	0.00	08/18/2023

Batch R335281 **SampType:** MS Units **mg/L**
SampID: 23070389-102EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		2.0	S	**11.9**	10.00	12.04	-1.8	85	115	08/18/2023

Batch R335281 **SampType:** MSD Units **mg/L** RPD Limit **10**
SampID: 23070389-102EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		2.0	S	**12.1**	10.00	12.04	0.8	11.86	2.17	08/18/2023

Batch R335506 **SampType:** MBLK Units **mg/L**
SampID: FILTER MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Dissolved Organic Carbon		1.0		**< 1.0**	0.4500	0	0	-100	100	08/24/2023

Batch R335506 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**	0.4500	0	0	-100	100	08/24/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9060A

Batch R335506 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.3**	5.000	0	105.6	90	110	08/24/2023

SW-846 9214 (DISSOLVED)

Batch R333259 **SampType:** MS Units **mg/L**
SampID: 23070389-049BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.06**	2.000	0.2540	90.1	75	125	07/28/2023

Batch R333259 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-049BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.11**	2.000	0.2540	92.8	2.056	2.55	07/28/2023

Batch R334347 **SampType:** MS Units **mg/L**
SampID: 23070389-024BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.30**	2.000	0.2930	100.5	75	125	07/31/2023

Batch R334347 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-024BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.29**	2.000	0.2930	99.9	2.303	0.52	07/31/2023

Batch R334347 **SampType:** MS Units **mg/L**
SampID: 23070389-110BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.22**	2.000	0.2920	96.5	75	125	07/31/2023

Batch R334347 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-110BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.20**	2.000	0.2920	95.6	2.222	0.86	07/31/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9214 (DISSOLVED)

Batch R334593 **SampType:** MS Units **mg/L**
SampID: 23070389-107BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.98**	2.000	0	99.0	75	125	08/04/2023

Batch R334593 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-107BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**1.94**	2.000	0	96.9	1.980	2.14	08/04/2023

SW-846 9214 (TOTAL)

Batch R333087 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	07/25/2023

Batch R333087 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.09**	1.000	0	108.6	90	110	07/25/2023

Batch R333087 **SampType:** MS Units **mg/L**
SampID: 23070389-105AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**3.15**	2.000	1.540	80.6	75	125	07/26/2023

Batch R333087 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-105AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**3.07**	2.000	1.540	76.4	3.152	2.73	07/26/2023

Batch R333194 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	07/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9214 (TOTAL)

Batch R333194 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.06**	1.000	0	105.8	90	110	07/27/2023

Batch R333194 **SampType:** MS Units **mg/L**
SampID: 23070389-011AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.59**	2.000	0.4340	107.7	75	125	07/27/2023

Batch R333194 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-011AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.61**	2.000	0.4340	108.6	2.588	0.69	07/27/2023

Batch R333194 **SampType:** MS Units **mg/L**
SampID: 23070389-108AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.10**	2.000	0.2160	94.2	75	125	07/27/2023

Batch R333194 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-108AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.08**	2.000	0.2160	93.0	2.099	1.10	07/27/2023

Batch R333259 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	07/28/2023

Batch R333259 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**0.93**	1.000	0	93.3	90	110	07/28/2023

Batch R333259 **SampType:** MS Units **mg/L**
SampID: 23070389-104AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		1.00		**17.6**	20.00	1.110	82.5	75	125	07/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9214 (TOTAL)

Batch R333259 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-104AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		1.00		**18.0**	20.00	1.110	84.5	17.61	2.25	07/28/2023

Batch R334347 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	07/31/2023

Batch R334347 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.00**	1.000	0	99.9	90	110	07/31/2023

Batch R334474 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	08/02/2023

Batch R334474 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.01**	1.000	0	100.6	90	110	08/02/2023

Batch R334474 **SampType:** MS Units **mg/L**
SampID: 23070389-020AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.79**	2.000	0.7220	103.2	75	125	08/02/2023

Batch R334474 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-020AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.76**	2.000	0.7220	101.7	2.787	1.12	08/02/2023

Batch R334474 **SampType:** MS Units **mg/L**
SampID: 23070389-045AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.92**	2.000	0.2300	84.5	75	125	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9214 (TOTAL)

Batch R334474 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-045AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**1.97**	2.000	0.2300	87.0	1.920	2.62	08/02/2023

Batch R334474 **SampType:** MS Units **mg/L**
SampID: 23070389-052AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.48**	2.000	0.4220	102.8	75	125	08/02/2023

Batch R334474 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-052AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.48**	2.000	0.4220	103.0	2.478	0.16	08/02/2023

Batch R334593 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	08/04/2023

Batch R334593 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**0.96**	1.000	0	96.3	90	110	08/04/2023

Batch R335249 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	08/21/2023

Batch R335249 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**0.96**	1.000	0	96.5	90	110	08/21/2023

Batch R335249 **SampType:** MS Units **mg/L**
SampID: 23070389-117AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.12**	2.000	0.1980	96.0	75	125	08/21/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9214 (TOTAL)

Batch R335249 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 23070389-117AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.10**	2.000	0.1980	95.2	2.119	0.81	08/21/2023

SW-846 9251 (DISSOLVED)

Batch R333281 **SampType:** MS Units **mg/L**

SampID: 23070389-102BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**143**	100.0	45.99	96.8	85	115	07/27/2023

Batch R333281 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 23070389-102BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**142**	100.0	45.99	96.0	142.8	0.62	07/27/2023

Batch R333281 **SampType:** MS Units **mg/L**

SampID: 23070389-105BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20	E	**281**	100.0	191.5	89.7	85	115	07/27/2023

Batch R333281 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 23070389-105BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20	E	**283**	100.0	191.5	91.9	281.2	0.78	07/27/2023

Batch R334401 **SampType:** MS Units **mg/L**

SampID: 23070389-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**289**	200.0	98.29	95.4	85	115	07/31/2023

Batch R334401 **SampType:** MSD Units **mg/L** RPD Limit **15**

SampID: 23070389-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**291**	200.0	98.29	96.4	289.1	0.65	07/31/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9251 (DISSOLVED)

Batch R334401 **SampType:** MS Units **mg/L**
SampID: 23070389-108BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		80		**500**	400.0	108.7	97.9	85	115	07/31/2023

Batch R334401 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-108BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		80		**503**	400.0	108.7	98.6	500.3	0.59	07/31/2023

Batch R334538 **SampType:** MS Units **mg/L**
SampID: 23070389-054BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		200		**1340**	1000	407.2	93.1	85	115	08/02/2023

Batch R334538 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-054BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		200		**1360**	1000	407.2	94.9	1338	1.30	08/02/2023

Batch R334646 **SampType:** MS Units **mg/L**
SampID: 23070389-047BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		200		**1200**	1000	210.9	98.7	85	115	08/05/2023

Batch R334646 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-047BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		200		**1190**	1000	210.9	97.5	1198	1.03	08/05/2023

Batch R335223 **SampType:** MS Units **mg/L**
SampID: 23070389-111BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**167**	100.0	76.40	90.5	85	115	08/17/2023

Batch R335223 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-111BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**163**	100.0	76.40	86.4	166.9	2.51	08/17/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9251 (DISSOLVED)

Batch R335479 **SampType:** MS Units **mg/L**
SampID: 23070389-117BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**285**	200.0	101.8	91.6	85	115	08/23/2023

Batch R335479 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-117BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**287**	200.0	101.8	92.8	285.0	0.85	08/23/2023

SW-846 9251 (TOTAL)

Batch R333281 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	07/27/2023

Batch R333281 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	102.8	90	110	07/27/2023

Batch R333281 **SampType:** MS Units **mg/L**
SampID: 23070389-015AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**43**	20.00	25.11	89.2	85	115	07/27/2023

Batch R333281 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-015AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**43**	20.00	25.11	89.0	42.95	0.12	07/27/2023

Batch R333281 **SampType:** MS Units **mg/L**
SampID: 23070389-105AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20	E	**282**	100.0	185.9	95.6	85	115	07/27/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9251 (TOTAL)

Batch R333281 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-105AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20	E	**282**	100.0	185.9	96.4	281.6	0.28	07/27/2023

Batch R334401 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	07/31/2023

Batch R334401 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	101.6	90	110	07/31/2023

Batch R334538 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/02/2023

Batch R334538 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	101.7	90	110	08/02/2023

Batch R334538 **SampType:** MS Units **mg/L**
SampID: 23070389-022AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	S	**43**	20.00	25.67	84.8	85	115	08/02/2023

Batch R334538 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-022AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	S	**42**	20.00	25.67	84.1	42.64	0.38	08/02/2023

Batch R334594 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/03/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9251 (TOTAL)

Batch R334594 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	105.6	90	110	08/03/2023

Batch R334594 **SampType:** MS Units **mg/L**
SampID: 23070389-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**29**	20.00	9.860	96.8	85	115	08/03/2023

Batch R334594 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**29**	20.00	9.860	96.9	29.23	0.03	08/03/2023

Batch R334594 **SampType:** MS Units **mg/L**
SampID: 23070389-044AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		800		**6220**	4000	2368	96.2	85	115	08/03/2023

Batch R334594 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-044AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		800		**6040**	4000	2368	91.8	6216	2.90	08/03/2023

Batch R334646 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/04/2023

Batch R334646 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	102.2	90	110	08/04/2023

Batch R334776 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/08/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9251 (TOTAL)

Batch R334776 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	104.0	90	110	08/08/2023

Batch R334776 **SampType:** MS Units **mg/L**
SampID: 23070389-050AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**24**	20.00	4.690	95.6	85	115	08/08/2023

Batch R334776 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-050AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**24**	20.00	4.690	95.6	23.80	0.04	08/08/2023

Batch R334776 **SampType:** MS Units **mg/L**
SampID: 23070389-091AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		8		**49**	40.00	10.23	96.3	85	115	08/08/2023

Batch R334776 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-091AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		8		**49**	40.00	10.23	96.4	48.76	0.08	08/08/2023

Batch R334902 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/10/2023

Batch R334902 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	103.6	90	110	08/10/2023

Batch R334956 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/11/2023

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Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 9251 (TOTAL)

Batch R334956 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	105.8	90	110	08/11/2023

Batch R335223 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/17/2023

Batch R335223 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	100.8	90	110	08/17/2023

Batch R335354 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/21/2023

Batch R335354 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	98.6	90	110	08/21/2023

Batch R335479 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	08/23/2023

Batch R335479 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	101.8	90	110	08/23/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210037 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	07/28/2023
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/02/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	07/28/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	08/02/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	08/02/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	07/28/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	07/28/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	07/28/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	08/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	07/28/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/02/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	07/28/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	07/28/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/02/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	07/28/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	08/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	07/28/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/02/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	07/28/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	07/28/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/02/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/02/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	07/28/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	07/28/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/02/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	08/02/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	07/28/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	08/02/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	07/28/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210037 **SampType:** LCS Units **mg/L**

SampID: LCS-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.94**	2.000	0	96.9	85	115	08/02/2023
Aluminum		0.0250		**1.72**	2.000	0	85.8	85	115	07/28/2023
Antimony		0.0500		**0.445**	0.5000	0	88.9	85	115	07/28/2023
Antimony		0.0500		**0.490**	0.5000	0	98.0	85	115	08/02/2023
Arsenic		0.0250		**0.475**	0.5000	0	95.0	85	115	07/28/2023
Arsenic		0.0250		**0.503**	0.5000	0	100.6	85	115	08/02/2023
Boron		0.0200		**0.454**	0.5000	0	90.7	85	115	07/28/2023
Cadmium		0.0020		**0.0499**	0.0500	0	99.8	85	115	08/02/2023
Cadmium		0.0020		**0.0492**	0.0500	0	98.4	85	115	07/28/2023
Calcium		0.100		**2.30**	2.500	0	91.9	85	115	07/28/2023
Calcium		0.100		**2.59**	2.500	0	103.4	85	115	08/02/2023
Chromium		0.0050		**0.181**	0.2000	0	90.6	85	115	07/28/2023
Chromium		0.0050		**0.197**	0.2000	0	98.6	85	115	08/02/2023
Iron		0.0400		**1.80**	2.000	0	90.0	85	115	07/28/2023
Iron		0.0400		**1.99**	2.000	0	99.6	85	115	08/02/2023
Lead		0.0150		**0.503**	0.5000	0	100.7	85	115	08/02/2023
Lead		0.0150		**0.464**	0.5000	0	92.9	85	115	07/28/2023
Magnesium		0.0500		**2.18**	2.500	0	87.1	85	115	07/28/2023
Magnesium		0.0500		**2.44**	2.500	0	97.5	85	115	08/02/2023
Manganese		0.0070		**0.443**	0.5000	0	88.7	85	115	07/28/2023
Manganese		0.0070		**0.498**	0.5000	0	99.7	85	115	08/02/2023
Potassium		0.100		**2.53**	2.500	0	101.2	85	115	08/02/2023
Potassium		0.100		**2.35**	2.500	0	94.0	85	115	07/28/2023
Selenium		0.0400		**0.500**	0.5000	0	100.0	85	115	08/02/2023
Selenium		0.0400		**0.447**	0.5000	0	89.5	85	115	07/28/2023
Silicon	*	0.0500		**0.459**	0.5000	0	91.8	85	115	08/02/2023
Sodium		0.0500		**2.42**	2.500	0	96.8	85	115	08/02/2023
Sodium		0.0500		**2.17**	2.500	0	86.7	85	115	07/28/2023
Vanadium		0.0100		**0.448**	0.5000	0	89.6	85	115	07/28/2023
Vanadium		0.0100		**0.489**	0.5000	0	97.8	85	115	08/02/2023
Zinc		0.0100		**0.451**	0.5000	0	90.2	85	115	07/28/2023
Zinc		0.0100		**0.498**	0.5000	0	99.5	85	115	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210037 **SampType:** MS Units **mg/L**

SampID: 23070389-009DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**358**	2.500	363.9	-239.6	75	125	08/02/2023
Magnesium		0.0500	S	**280**	2.500	286.5	-278.9	75	125	08/02/2023
Potassium		0.100		**4.16**	2.500	1.722	97.5	75	125	07/28/2023
Silicon	*	0.0500	S	**10.4**	0.5000	10.26	36.3	75	125	08/02/2023
Sodium		0.0500	S	**243**	2.500	247.2	-163.2	75	125	08/02/2023

Batch 210037 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-009DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**359**	2.500	363.9	-197.6	358.0	0.29	08/02/2023
Magnesium		0.0500	S	**282**	2.500	286.5	-189.8	279.6	0.79	08/02/2023
Potassium		0.100		**4.14**	2.500	1.722	96.8	4.160	0.41	07/28/2023
Silicon	*	0.0500	S	**10.4**	0.5000	10.26	35.4	10.44	0.05	08/02/2023
Sodium		0.0500	S	**243**	2.500	247.2	-177.2	243.1	0.14	08/02/2023

Batch 210142 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/01/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	08/01/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	08/01/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/01/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	08/01/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/01/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/01/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/01/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	08/01/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/01/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/01/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/01/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/01/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/04/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/01/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	08/01/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	08/01/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210142 **SampType:** LCS Units **mg/L**

SampID: LCS-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.81**	2.000	0	90.5	85	115	08/01/2023
Antimony		0.0500		**0.459**	0.5000	0	91.9	85	115	08/01/2023
Arsenic		0.0250		**0.460**	0.5000	0	92.0	85	115	08/01/2023
Boron		0.0200		**0.456**	0.5000	0	91.2	85	115	08/01/2023
Cadmium		0.0020		**0.0464**	0.0500	0	92.8	85	115	08/01/2023
Calcium		0.100		**2.36**	2.500	0	94.4	85	115	08/01/2023
Chromium		0.0050		**0.181**	0.2000	0	90.7	85	115	08/01/2023
Iron		0.0400		**1.83**	2.000	0	91.3	85	115	08/01/2023
Lead		0.0150		**0.459**	0.5000	0	91.9	85	115	08/01/2023
Magnesium		0.0500		**2.19**	2.500	0	87.6	85	115	08/01/2023
Manganese		0.0070		**0.452**	0.5000	0	90.3	85	115	08/01/2023
Potassium		0.100		**2.52**	2.500	0	100.9	85	115	08/01/2023
Selenium		0.0400		**0.439**	0.5000	0	87.8	85	115	08/01/2023
Silicon	*	0.0500		**0.501**	0.5000	0	100.2	85	115	08/07/2023
Sodium		0.0500		**2.34**	2.500	0	93.6	85	115	08/01/2023
Vanadium		0.0100		**0.458**	0.5000	0	91.6	85	115	08/01/2023
Zinc		0.0100		**0.456**	0.5000	0	91.2	85	115	08/01/2023

Batch 210142 **SampType:** MS Units **mg/L**

SampID: 23070389-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**487**	2.500	491.4	-165.2	75	125	08/01/2023
Magnesium		0.0500	S	**268**	2.500	268.6	-14.3	75	125	08/01/2023
Potassium		0.100		**6.98**	2.500	4.330	106.1	75	125	08/01/2023
Sodium		0.0500	S	**154**	2.500	153.8	15.2	75	125	08/01/2023

Batch 210142 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-043CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**485**	2.500	491.4	-270.4	487.2	0.54	08/01/2023
Magnesium		0.0500	S	**265**	2.500	268.6	-137.5	268.3	1.16	08/01/2023
Potassium		0.100		**6.92**	2.500	4.330	103.6	6.984	0.90	08/01/2023
Sodium		0.0500	S	**153**	2.500	153.8	-25.2	154.2	0.66	08/01/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210298 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/02/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/02/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/02/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/02/2023

Batch 210298 **SampType:** LCS Units **mg/L**

SampID: LCS-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.80**	2.000	0	90.2	85	115	08/02/2023
Cadmium		0.0020		**0.0483**	0.0500	0	96.6	85	115	08/03/2023
Calcium		0.100		**2.39**	2.500	0	95.8	85	115	08/02/2023
Iron		0.0400		**1.94**	2.000	0	96.9	85	115	08/02/2023
Magnesium		0.0500		**2.26**	2.500	0	90.5	85	115	08/02/2023
Manganese		0.0070		**0.472**	0.5000	0	94.3	85	115	08/02/2023
Potassium		0.100		**2.47**	2.500	0	98.8	85	115	08/02/2023
Silicon	*	0.0500		**0.502**	0.5000	0	100.4	85	115	08/07/2023
Sodium		0.0500		**2.28**	2.500	0	91.2	85	115	08/02/2023

Batch 210298 **SampType:** MS Units **mg/L**

SampID: 23070389-048CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**591**	2.500	597.2	-241.6	75	125	08/02/2023
Magnesium		0.0500	S	**395**	2.500	398.0	-108.9	75	125	08/02/2023
Potassium		0.100		**6.53**	2.500	3.799	109.2	75	125	08/02/2023
Sodium		2.50	S	**556**	2.500	562.0	-240.0	75	125	08/03/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210298 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-048CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**592**	2.500	597.2	-214.8	591.2	0.11	08/02/2023
Magnesium		0.0500	S	**397**	2.500	398.0	-24.8	395.3	0.53	08/02/2023
Potassium		0.100		**6.53**	2.500	3.799	109.4	6.529	0.08	08/02/2023
Sodium		2.50	S	**562**	2.500	562.0	0	556.0	1.07	08/03/2023

Batch 210567 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/10/2023
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/09/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/10/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/10/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/09/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/09/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/09/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/10/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/09/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/10/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/09/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/09/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 210567 **SampType:** LCS Units **mg/L**

SampID: LCS-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.73**	2.000	0	86.6	85	115	08/09/2023
Aluminum		0.0250		**1.73**	2.000	0	86.4	85	115	08/10/2023
Calcium		0.100		**2.30**	2.500	0	91.9	85	115	08/10/2023
Iron		0.0400		**1.84**	2.000	0	91.9	85	115	08/09/2023
Iron		0.0400		**1.74**	2.000	0	87.0	85	115	08/10/2023
Magnesium		0.0500		**2.26**	2.500	0	90.3	85	115	08/09/2023
Manganese		0.0070		**0.461**	0.5000	0	92.1	85	115	08/09/2023
Manganese		0.0070		**0.431**	0.5000	0	86.2	85	115	08/10/2023
Potassium		0.100		**2.41**	2.500	0	96.4	85	115	08/09/2023
Potassium		0.100		**2.43**	2.500	0	97.0	85	115	08/10/2023
Silicon	*	0.0500		**0.425**	0.5000	0	85.0	85	115	08/09/2023
Sodium		0.0500		**2.24**	2.500	0	89.6	85	115	08/10/2023
Sodium		0.0500		**2.21**	2.500	0	88.5	85	115	08/09/2023

Batch 210567 **SampType:** MS Units **mg/L**

SampID: 23070389-038CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**66.0**	2.500	64.96	39.6	75	125	08/09/2023
Magnesium		0.0500		**27.1**	2.500	25.20	75.4	75	125	08/09/2023
Potassium		0.100		**2.61**	2.500	0.2328	95.1	75	125	08/09/2023
Sodium		0.0500	S	**100**	2.500	100.8	-26.0	75	125	08/09/2023

Batch 210567 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-038CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**66.0**	2.500	64.96	40.0	65.95	0.02	08/09/2023
Magnesium		0.0500		**27.2**	2.500	25.20	79.9	27.09	0.42	08/09/2023
Potassium		0.100		**2.64**	2.500	0.2328	96.2	2.611	1.01	08/09/2023
Sodium		0.0500	S	**101**	2.500	100.8	2.0	100.2	0.70	08/09/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 211013 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/18/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/18/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	08/18/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/18/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/18/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/18/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/18/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	08/18/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	08/18/2023

Batch 211013 **SampType:** LCS Units **mg/L**

SampID: LCS-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.71**	2.000	0	85.5	85	115	08/18/2023
Calcium		0.100		**2.28**	2.500	0	91.1	85	115	08/18/2023
Iron		0.0400		**1.77**	2.000	0	88.3	85	115	08/18/2023
Lead		0.0150		**0.448**	0.5000	0	89.5	85	115	08/18/2023
Magnesium		0.0500		**2.13**	2.500	0	85.0	85	115	08/18/2023
Manganese		0.0070		**0.440**	0.5000	0	88.0	85	115	08/18/2023
Potassium		0.100		**2.43**	2.500	0	97.1	85	115	08/18/2023
Selenium		0.0400		**0.445**	0.5000	0	89.0	85	115	08/18/2023
Sodium		0.0500		**2.26**	2.500	0	90.5	85	115	08/18/2023
Vanadium		0.0100		**0.442**	0.5000	0	88.4	85	115	08/18/2023
Zinc		0.0100		**0.445**	0.5000	0	89.0	85	115	08/18/2023

Batch 211013 **SampType:** MS Units **mg/L**

SampID: 23070389-112CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**59.3**	2.500	59.96	-25.2	75	125	08/18/2023
Magnesium		0.0500		**26.6**	2.500	24.56	83.0	75	125	08/21/2023
Potassium		0.100		**2.66**	2.500	0.1760	99.2	75	125	08/18/2023
Sodium		0.0500		**103**	2.500	100.7	94.0	75	125	08/18/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 211013 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-112CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**60.5**	2.500	59.96	20.8	59.33	1.92	08/18/2023
Magnesium		0.0500		**26.7**	2.500	24.56	84.2	26.63	0.11	08/21/2023
Potassium		0.100		**2.59**	2.500	0.1760	96.4	2.657	2.74	08/18/2023
Sodium		0.0500	S	**98.8**	2.500	100.7	-75.2	103.0	4.19	08/18/2023

Batch 211033 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211033

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/18/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	08/18/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	08/18/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/18/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	08/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/18/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/18/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/18/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	08/18/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/18/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/18/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/18/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/18/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/18/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	08/18/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	08/18/2023

Teklab, Inc.
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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 211033 **SampType:** LCS Units **mg/L**

SampID: LCS-211033

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.72**	2.000	0	86.2	85	115	08/18/2023
Antimony		0.0500		**0.448**	0.5000	0	89.5	85	115	08/18/2023
Arsenic		0.0250		**0.464**	0.5000	0	92.9	85	115	08/18/2023
Boron		0.0200		**0.444**	0.5000	0	88.8	85	115	08/18/2023
Cadmium		0.0020		**0.0448**	0.0500	0	89.6	85	115	08/18/2023
Calcium		0.100		**2.33**	2.500	0	93.4	85	115	08/18/2023
Chromium		0.0050		**0.179**	0.2000	0	89.3	85	115	08/18/2023
Iron		0.0400		**1.80**	2.000	0	89.8	85	115	08/18/2023
Lead		0.0150		**0.454**	0.5000	0	90.8	85	115	08/18/2023
Magnesium		0.0500		**2.16**	2.500	0	86.4	85	115	08/18/2023
Manganese		0.0070		**0.445**	0.5000	0	88.9	85	115	08/18/2023
Potassium		0.100		**2.42**	2.500	0	96.8	85	115	08/18/2023
Selenium		0.0400		**0.448**	0.5000	0	89.7	85	115	08/18/2023
Silicon	*	0.0500		**0.472**	0.5000	0	94.5	85	115	08/22/2023
Silicon	*	0.0500		**0.460**	0.5000	0	91.9	85	115	08/21/2023
Sodium		0.0500		**2.26**	2.500	0	90.4	85	115	08/18/2023
Vanadium		0.0100		**0.447**	0.5000	0	89.4	85	115	08/18/2023
Zinc		0.0100		**0.449**	0.5000	0	89.9	85	115	08/18/2023

Batch 211033 **SampType:** MS Units **mg/L**

SampID: 23070389-117DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**480**	2.500	491.9	-484.4	75	125	08/18/2023
Magnesium		0.0500	S	**443**	2.500	447.9	-206.9	75	125	08/18/2023
Potassium		0.100		**9.26**	2.500	6.709	102.1	75	125	08/18/2023
Silicon	*	0.0500	S	**8.12**	0.5000	7.889	46.2	75	125	08/18/2023
Sodium		0.0500	S	**394**	2.500	398.1	-169.2	75	125	08/18/2023

Batch 211033 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-117DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**469**	2.500	491.9	-919.2	479.8	2.29	08/18/2023
Magnesium		0.0500	S	**427**	2.500	447.9	-852.3	442.7	3.71	08/18/2023
Potassium		0.100		**8.97**	2.500	6.709	90.3	9.261	3.24	08/18/2023
Silicon	*	0.0500	S	**7.92**	0.5000	7.889	5.3	8.120	2.55	08/18/2023
Sodium		0.0500	S	**382**	2.500	398.1	-624.0	393.8	2.93	08/18/2023

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Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 209945 **SampType:** MBLK Units **mg/L**
SampID: MBLK-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	07/26/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	07/26/2023
Magnesium		0.0500		**< 0.0500**	0.0060	0	0	-100	100	07/26/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	07/26/2023
Silicon	*	0.0500	JS	**0.031**	0.0122	0	253.3	-100	100	07/26/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	07/26/2023

Batch 209945 **SampType:** LCS Units **mg/L**
SampID: LCS-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.70**	2.500	0	108.0	85	115	07/26/2023
Iron		0.0400		**1.98**	2.000	0	99.2	85	115	07/26/2023
Magnesium		0.0500		**2.39**	2.500	0	95.5	85	115	07/26/2023
Potassium		0.100		**2.71**	2.500	0	108.2	85	115	07/26/2023
Silicon	*	0.0500	B	**0.500**	0.5000	0	99.9	85	115	07/26/2023
Sodium		0.0500		**2.51**	2.500	0	100.6	85	115	07/26/2023

Batch 209945 **SampType:** MS Units **mg/L**
SampID: 23070389-103CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**29.2**	2.500	27.59	64.8	75	125	07/26/2023
Magnesium		0.0500		**2.46**	2.500	0.2025	90.3	75	125	07/26/2023
Potassium		1.00	S	**19.7**	2.500	16.38	134.0	75	125	07/28/2023
Silicon	*	0.0500	B	**4.30**	0.5000	3.899	80.4	75	125	07/26/2023
Sodium		0.0500	S	**69.2**	2.500	69.09	5.6	75	125	07/26/2023

Batch 209945 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-103CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**28.8**	2.500	27.59	49.6	29.21	1.31	07/26/2023
Magnesium		0.0500		**2.43**	2.500	0.2025	89.0	2.460	1.29	07/26/2023
Potassium		1.00	S	**20.4**	2.500	16.38	162.2	19.73	3.51	07/28/2023
Silicon	*	0.0500	BS	**4.24**	0.5000	3.899	67.7	4.301	1.49	07/26/2023
Sodium		0.0500	S	**68.8**	2.500	69.09	-10.8	69.23	0.59	07/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210094 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/01/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	08/01/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	08/01/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/11/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/01/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	08/01/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/01/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/01/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/01/2023
Lead		0.0150		**< 0.0150**	0.0040	0	0	-100	100	08/01/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/01/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/01/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/01/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/01/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/04/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/01/2023

Batch 210094 **SampType:** LCS Units **mg/L**

SampID: LCS-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.95**	2.000	0	97.6	85	115	08/01/2023
Antimony		0.0500		**0.504**	0.5000	0	100.7	85	115	08/01/2023
Arsenic		0.0250		**0.513**	0.5000	0	102.5	85	115	08/01/2023
Boron		0.0200		**0.493**	0.5000	0	98.5	85	115	08/01/2023
Boron		0.0200		**0.510**	0.5000	0	101.9	85	115	08/11/2023
Cadmium		0.0020		**0.0512**	0.0500	0	102.4	85	115	08/01/2023
Calcium		0.100		**2.56**	2.500	0	102.2	85	115	08/01/2023
Chromium		0.0050		**0.198**	0.2000	0	98.8	85	115	08/01/2023
Iron		0.0400		**1.97**	2.000	0	98.7	85	115	08/01/2023
Lead		0.0150		**0.498**	0.5000	0	99.6	85	115	08/01/2023
Magnesium		0.0500		**2.34**	2.500	0	93.8	85	115	08/01/2023
Manganese		0.0070		**0.491**	0.5000	0	98.3	85	115	08/01/2023
Potassium		0.100		**2.68**	2.500	0	107.1	85	115	08/01/2023
Selenium		0.0400		**0.482**	0.5000	0	96.4	85	115	08/01/2023
Silicon	*	0.0500		**0.439**	0.5000	0	87.8	85	115	08/04/2023
Sodium		0.0500		**2.53**	2.500	0	101.2	85	115	08/01/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210094 **SampType:** MS Units **mg/L**
SampID: 23070389-010CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**57.8**	5.000	53.71	82.2	75	125	08/01/2023
Magnesium		0.0500		**29.0**	5.000	24.74	85.9	75	125	08/01/2023
Potassium		0.100		**6.48**	5.000	1.420	101.1	75	125	08/01/2023
Silicon	*	0.0500	S	**6.81**	1.000	7.807	-100.2	75	125	08/04/2023
Sodium		0.0500	S	**119**	5.000	115.0	72.8	75	125	08/01/2023

Batch 210094 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-010CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**57.2**	5.000	53.71	70.2	57.82	1.04	08/01/2023
Magnesium		0.0500		**28.7**	5.000	24.74	80.2	29.03	0.98	08/01/2023
Potassium		0.100		**6.38**	5.000	1.420	99.1	6.475	1.56	08/01/2023
Silicon	*	0.0500	S	**6.76**	1.000	7.807	-104.6	6.805	0.65	08/04/2023
Sodium		0.0500	S	**117**	5.000	115.0	44.2	118.6	1.21	08/01/2023

Batch 210094 **SampType:** MS Units **mg/L**
SampID: 23070389-064CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**177**	5.000	175.3	39.2	75	125	08/01/2023
Magnesium		0.0500		**68.4**	5.000	63.84	91.1	75	125	08/01/2023
Potassium		0.200		**11.9**	5.000	7.082	95.5	75	125	08/04/2023
Sodium		0.0500	S	**101**	5.000	97.49	69.6	75	125	08/01/2023

Batch 210094 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-064CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**175**	5.000	175.3	-1.4	177.3	1.15	08/01/2023
Magnesium		0.0500	S	**67.1**	5.000	63.84	66.0	68.40	1.85	08/01/2023
Potassium		0.200		**12.1**	5.000	7.082	101.0	11.86	2.33	08/04/2023
Sodium		0.0500		**102**	5.000	97.49	88.6	101.0	0.94	08/01/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210149 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/03/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/03/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/03/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/03/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/03/2023

Batch 210149 **SampType:** LCS Units **mg/L**
SampID: LCS-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.57**	2.500	0	102.6	85	115	08/03/2023
Iron		0.0400		**1.96**	2.000	0	98.0	85	115	08/03/2023
Magnesium		0.0500		**2.33**	2.500	0	93.4	85	115	08/03/2023
Potassium		0.100		**2.58**	2.500	0	103.3	85	115	08/03/2023
Sodium		0.0500		**2.47**	2.500	0	98.8	85	115	08/03/2023

Batch 210149 **SampType:** MS Units **mg/L**
SampID: 23070389-068BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		5.00	S	**1140**	2.500	1159	-720.0	75	125	08/07/2023
Magnesium		2.50		**11.2**	2.500	8.715	99.2	75	125	08/07/2023
Potassium		50.0	S	**1950**	2.500	1943	182.0	75	125	08/08/2023
Sodium		5.00	S	**15300**	2.500	14890	15440	75	125	08/07/2023

Batch 210149 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-068BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		5.00	S	**1150**	2.500	1159	-400.0	1141	0.70	08/07/2023
Magnesium		2.50		**11.1**	2.500	8.715	94.6	11.20	1.03	08/07/2023
Potassium		50.0	S	**1970**	2.500	1943	932.0	1948	0.96	08/08/2023
Sodium		5.00	S	**15200**	2.500	14890	12080	15280	0.55	08/07/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210259 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/02/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/02/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/02/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/02/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/02/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/02/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/02/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/02/2023

Batch 210259 **SampType:** LCS Units **mg/L**

SampID: LCS-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.94**	2.000	0	96.8	85	115	08/02/2023
Calcium		0.100		**2.60**	2.500	0	104.2	85	115	08/02/2023
Iron		0.0400		**2.14**	2.000	0	107.0	85	115	08/02/2023
Magnesium		0.0500		**2.44**	2.500	0	97.5	85	115	08/02/2023
Manganese		0.0070		**0.515**	0.5000	0	103.0	85	115	08/02/2023
Potassium		0.100		**2.60**	2.500	0	103.8	85	115	08/02/2023
Silicon	*	0.0500		**0.438**	0.5000	0	87.5	85	115	08/02/2023
Sodium		0.0500		**2.46**	2.500	0	98.4	85	115	08/02/2023

Batch 210259 **SampType:** MS Units **mg/L**

SampID: 23070389-014CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**144**	5.000	139.8	92.2	75	125	08/02/2023
Magnesium		0.0500		**72.5**	5.000	67.27	104.4	75	125	08/02/2023
Potassium		0.100		**6.48**	5.000	1.499	99.5	75	125	08/02/2023
Silicon	*	0.0500		**8.61**	1.000	7.669	94.2	75	125	08/02/2023
Sodium		0.0500	S	**118**	5.000	111.9	129.8	75	125	08/02/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210259 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-014CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**146**	5.000	139.8	126.8	144.4	1.19	08/02/2023
Magnesium		0.0500	S	**73.7**	5.000	67.27	128.3	72.49	1.64	08/02/2023
Potassium		0.100		**6.52**	5.000	1.499	100.4	6.475	0.69	08/02/2023
Silicon	*	0.0500		**8.90**	1.000	7.669	122.9	8.610	3.28	08/02/2023
Sodium		0.0500	S	**121**	5.000	111.9	181.4	118.4	2.16	08/02/2023

Batch 210307 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/04/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	08/04/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	08/04/2023
Barium		0.0025		**< 0.0025**	0.0007	0	0	-100	100	08/04/2023
Beryllium		0.0005		**< 0.0005**	0.0002	0	0	-100	100	08/04/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/04/2023
Cadmium		0.0020	J	**0.0005**	0.0005	0	100.0	-100	100	08/04/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/04/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/04/2023
Cobalt		0.0050		**< 0.0050**	0.0020	0	0	-100	100	08/04/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/04/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	08/04/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/04/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/04/2023
Molybdenum		0.0100		**< 0.0100**	0.0037	0	0	-100	100	08/04/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/04/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/04/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/04/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/04/2023
Thallium		0.0500		**< 0.0500**	0.0111	0	0	-100	100	08/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210307 **SampType:** LCS Units **mg/L**

SampID: LCS-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.78**	2.000	0	88.9	85	115	08/04/2023
Antimony		0.0500		**0.477**	0.5000	0	95.4	85	115	08/04/2023
Arsenic		0.0250		**0.488**	0.5000	0	97.5	85	115	08/04/2023
Barium		0.0025		**1.87**	2.000	0	93.7	85	115	08/04/2023
Beryllium		0.0005		**0.0467**	0.0500	0	93.4	85	115	08/04/2023
Boron		0.0200		**0.467**	0.5000	0	93.4	85	115	08/04/2023
Cadmium		0.0020		**0.0471**	0.0500	0	94.2	85	115	08/04/2023
Calcium		0.100		**2.46**	2.500	0	98.2	85	115	08/04/2023
Chromium		0.0050		**0.184**	0.2000	0	92.2	85	115	08/04/2023
Cobalt		0.0050		**0.470**	0.5000	0	94.0	85	115	08/04/2023
Iron		0.0400		**1.85**	2.000	0	92.3	85	115	08/04/2023
Lead		0.0150		**0.471**	0.5000	0	94.1	85	115	08/04/2023
Magnesium		0.0500		**2.33**	2.500	0	93.4	85	115	08/04/2023
Manganese		0.0070		**0.461**	0.5000	0	92.2	85	115	08/04/2023
Molybdenum		0.0100		**0.456**	0.5000	0	91.3	85	115	08/04/2023
Potassium		0.100		**2.52**	2.500	0	100.9	85	115	08/04/2023
Selenium		0.0400		**0.467**	0.5000	0	93.5	85	115	08/04/2023
Silicon	*	0.0500		**0.471**	0.5000	0	94.3	85	115	08/04/2023
Sodium		0.0500		**2.32**	2.500	0	92.7	85	115	08/04/2023
Thallium		0.0500		**0.242**	0.2500	0	96.8	85	115	08/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210307 **SampType:** LCSD Units **mg/L** RPD Limit **20**

SampID: LCSD-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.81**	2.000	0	90.7	1.779	2.01	08/04/2023
Antimony		0.0500		**0.483**	0.5000	0	96.6	0.4769	1.27	08/04/2023
Arsenic		0.0250		**0.506**	0.5000	0	101.2	0.4875	3.70	08/04/2023
Barium		0.0025		**1.91**	2.000	0	95.6	1.875	1.91	08/04/2023
Beryllium		0.0005		**0.0476**	0.0500	0	95.2	0.04670	1.91	08/04/2023
Boron		0.0200		**0.478**	0.5000	0	95.5	0.4669	2.29	08/04/2023
Cadmium		0.0020		**0.0484**	0.0500	0	96.8	0.04710	2.72	08/04/2023
Calcium		0.100		**2.47**	2.500	0	98.9	2.455	0.67	08/04/2023
Chromium		0.0050		**0.188**	0.2000	0	94.1	0.1844	1.99	08/04/2023
Cobalt		0.0050		**0.481**	0.5000	0	96.2	0.4701	2.29	08/04/2023
Iron		0.0400		**1.90**	2.000	0	94.9	1.845	2.81	08/04/2023
Lead		0.0150		**0.482**	0.5000	0	96.3	0.4706	2.33	08/04/2023
Magnesium		0.0500		**2.39**	2.500	0	95.6	2.335	2.34	08/04/2023
Manganese		0.0070		**0.470**	0.5000	0	94.1	0.4610	2.04	08/04/2023
Molybdenum		0.0100		**0.466**	0.5000	0	93.2	0.4563	2.08	08/04/2023
Potassium		0.100		**2.56**	2.500	0	102.3	2.523	1.38	08/04/2023
Selenium		0.0400		**0.476**	0.5000	0	95.1	0.4673	1.74	08/04/2023
Silicon	*	0.0500		**0.479**	0.5000	0	95.8	0.4714	1.58	08/04/2023
Sodium		0.0500		**2.35**	2.500	0	93.9	2.317	1.35	08/04/2023
Thallium		0.0500		**0.244**	0.2500	0	97.8	0.2419	1.07	08/04/2023

Batch 210307 **SampType:** MS Units **mg/L**

SampID: 23070389-025BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**114**	5.000	26.12	1766	75	125	08/04/2023
Potassium		0.100	S	**8.29**	5.000	0.8466	149.0	75	125	08/07/2023
Sodium		0.0500	S	**197**	5.000	45.61	3019	75	125	08/04/2023

Batch 210307 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-025BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**119**	5.000	26.12	1860	114.4	4.02	08/04/2023
Potassium		0.100	S	**8.46**	5.000	0.8466	152.3	8.294	1.99	08/07/2023
Sodium		0.0500	S	**205**	5.000	45.61	3186	196.6	4.14	08/04/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210483 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/08/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/08/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/08/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/08/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/08/2023
Molybdenum		0.0100		**< 0.0100**	0.0037	0	0	-100	100	08/08/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/08/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/08/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/08/2023

Batch 210483 **SampType:** LCS Units **mg/L**
SampID: LCS-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0200		**0.484**	0.5000	0	96.7	85	115	08/08/2023
Calcium		0.100		**2.51**	2.500	0	100.5	85	115	08/08/2023
Iron		0.0400		**1.94**	2.000	0	97.1	85	115	08/08/2023
Magnesium		0.0500		**2.33**	2.500	0	93.1	85	115	08/08/2023
Manganese		0.0070		**0.480**	0.5000	0	96.1	85	115	08/08/2023
Molybdenum		0.0100		**0.475**	0.5000	0	95.0	85	115	08/08/2023
Potassium		0.100		**2.60**	2.500	0	104.2	85	115	08/08/2023
Silicon	*	0.0500		**0.505**	0.5000	0	101.0	85	115	08/08/2023
Sodium		0.0500		**2.43**	2.500	0	97.2	85	115	08/08/2023

Batch 210483 **SampType:** LCSD Units **mg/L** RPD Limit **20**
SampID: LCSD-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0200		**0.495**	0.5000	0	98.9	0.4836	2.27	08/08/2023
Calcium		0.100		**2.57**	2.500	0	103.0	2.512	2.46	08/08/2023
Iron		0.0400		**1.97**	2.000	0	98.4	1.942	1.27	08/08/2023
Magnesium		0.0500		**2.35**	2.500	0	94.1	2.328	1.06	08/08/2023
Manganese		0.0070		**0.490**	0.5000	0	98.1	0.4804	2.04	08/08/2023
Molybdenum		0.0100		**0.480**	0.5000	0	96.1	0.4748	1.15	08/08/2023
Potassium		0.100		**2.64**	2.500	0	105.6	2.604	1.31	08/08/2023
Silicon	*	0.0500		**0.511**	0.5000	0	102.2	0.5048	1.18	08/08/2023
Sodium		0.0500		**2.47**	2.500	0	98.7	2.430	1.57	08/08/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 210625 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/14/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/10/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/10/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/10/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/10/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/10/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/14/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/10/2023

Batch 210625 **SampType:** LCS Units **mg/L**

SampID: LCS-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.45**	2.500	0	98.2	85	115	08/10/2023
Calcium		0.100		**2.53**	2.500	0	101.1	85	115	08/14/2023
Iron		0.0400		**1.93**	2.000	0	96.7	85	115	08/10/2023
Magnesium		0.0500		**2.30**	2.500	0	92.2	85	115	08/10/2023
Manganese		0.0070		**0.465**	0.5000	0	92.9	85	115	08/10/2023
Potassium		0.100		**2.54**	2.500	0	101.7	85	115	08/10/2023
Silicon	*	0.0500		**0.528**	0.5000	0	105.5	85	115	08/14/2023
Sodium		0.0500		**2.37**	2.500	0	94.8	85	115	08/10/2023

Batch 210625 **SampType:** LCSD Units **mg/L** RPD Limit **20**

SampID: LCSD-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**2.45**	2.500	0	98.0	2.454	0.20	08/10/2023
Calcium		0.100		**2.47**	2.500	0	98.6	2.528	2.48	08/14/2023
Iron		0.0400		**1.90**	2.000	0	95.1	1.934	1.63	08/10/2023
Magnesium		0.0500		**2.29**	2.500	0	91.7	2.304	0.53	08/10/2023
Manganese		0.0070		**0.460**	0.5000	0	92.0	0.4646	1.04	08/10/2023
Potassium		0.100		**2.52**	2.500	0	101.0	2.542	0.73	08/10/2023
Silicon	*	0.0500		**0.511**	0.5000	0	102.3	0.5275	3.12	08/14/2023
Sodium		0.0500		**2.35**	2.500	0	93.9	2.371	0.99	08/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211012 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/18/2023
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	08/18/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	08/18/2023
Barium		0.0025		**< 0.0025**	0.0007	0	0	-100	100	08/18/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	08/18/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	08/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/18/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/18/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/18/2023
Lead		0.0150		**< 0.0150**	0.0040	0	0	-100	100	08/18/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/18/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/18/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	08/18/2023
Silicon	*	0.0500		**< 0.0500**	0.0122	0	0	-100	100	08/18/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/18/2023

Batch 211012 **SampType:** LCS Units **mg/L**

SampID: LCS-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.94**	2.000	0	97.2	85	115	08/18/2023
Antimony		0.0500		**0.514**	0.5000	0	102.8	85	115	08/18/2023
Arsenic		0.0250		**0.538**	0.5000	0	107.5	85	115	08/18/2023
Barium		0.0025		**2.03**	2.000	0	101.5	85	115	08/18/2023
Boron		0.0200		**0.503**	0.5000	0	100.5	85	115	08/18/2023
Cadmium		0.0020		**0.0504**	0.0500	0	100.8	85	115	08/18/2023
Calcium		0.100		**2.62**	2.500	0	105.0	85	115	08/18/2023
Chromium		0.0050		**0.202**	0.2000	0	100.8	85	115	08/18/2023
Iron		0.0400		**2.07**	2.000	0	103.5	85	115	08/18/2023
Lead		0.0150		**0.513**	0.5000	0	102.6	85	115	08/18/2023
Magnesium		0.0500		**2.47**	2.500	0	98.9	85	115	08/18/2023
Manganese		0.0070		**0.505**	0.5000	0	101.0	85	115	08/18/2023
Potassium		0.100		**2.64**	2.500	0	105.4	85	115	08/18/2023
Selenium		0.0400		**0.518**	0.5000	0	103.5	85	115	08/18/2023
Silicon	*	0.0500		**0.454**	0.5000	0	90.8	85	115	08/18/2023
Sodium		0.0500		**2.53**	2.500	0	101.0	85	115	08/18/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211012 **SampType:** MS Units **mg/L**
SampID: 23070389-114CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**125**	2.500	122.4	111.6	75	125	08/18/2023
Magnesium		0.0500		**47.0**	2.500	44.62	94.6	75	125	08/18/2023
Potassium		0.100		**5.78**	2.500	3.161	104.8	75	125	08/18/2023
Sodium		0.0500		**90.1**	2.500	87.99	85.2	75	125	08/18/2023

Batch 211012 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-114CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**127**	2.500	122.4	174.8	125.2	1.25	08/18/2023
Magnesium		0.0500		**47.7**	2.500	44.62	121.8	46.98	1.44	08/18/2023
Potassium		0.100		**5.70**	2.500	3.161	101.7	5.780	1.35	08/18/2023
Sodium		0.0500		**90.2**	2.500	87.99	88.0	90.12	0.08	08/18/2023

Batch 211034 **SampType:** MBLK Units **mg/L**
SampID: MBLK-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0127	0	0	-100	100	08/21/2023
Calcium		0.100	JS	**0.051**	0.0350	0	146.6	-100	100	08/21/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/21/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/21/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	08/21/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	08/21/2023
Silicon	*	0.0500	JS	**0.030**	0.0122	0	246.7	-100	100	08/23/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	08/21/2023

Batch 211034 **SampType:** LCS Units **mg/L**
SampID: LCS-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.03**	2.000	0	101.5	85	115	08/21/2023
Calcium		0.100	B	**2.76**	2.500	0	110.2	85	115	08/21/2023
Iron		0.0400		**2.11**	2.000	0	105.5	85	115	08/21/2023
Magnesium		0.0500		**2.49**	2.500	0	99.7	85	115	08/21/2023
Manganese		0.0070		**0.520**	0.5000	0	104.1	85	115	08/21/2023
Potassium		0.100		**2.75**	2.500	0	109.9	85	115	08/21/2023
Silicon	*	0.0500	B	**0.542**	0.5000	0	108.4	85	115	08/23/2023
Sodium		0.0500		**2.58**	2.500	0	103.0	85	115	08/21/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 211213 **SampType:** MBLK Units **mg/L**
SampID: MBLK-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	08/23/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	08/23/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	08/23/2023
Potassium		0.100	JS	**0.044**	0.0400	0	109.8	-100	100	08/23/2023
Silicon	*	0.0500	JS	**0.038**	0.0122	0	309.0	-100	100	08/23/2023
Sodium		0.0500	JS	**0.045**	0.0180	0	251.1	-100	100	08/23/2023

Batch 211213 **SampType:** LCS Units **mg/L**
SampID: LCS-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.76**	2.500	0	110.4	85	115	08/23/2023
Iron		0.0400		**2.12**	2.000	0	106.0	85	115	08/23/2023
Magnesium		0.0500		**2.50**	2.500	0	100.0	85	115	08/23/2023
Potassium		0.100	B	**2.70**	2.500	0	107.9	85	115	08/23/2023
Silicon	*	0.0500	B	**0.537**	0.5000	0	107.4	85	115	08/23/2023
Sodium		0.0500	B	**2.58**	2.500	0	103.1	85	115	08/23/2023

Batch 211213 **SampType:** MS Units **mg/L**
SampID: 23070389-116CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**492**	5.000	475.1	337.0	75	125	08/23/2023
Magnesium		0.0500	S	**449**	5.000	429.2	403.1	75	125	08/23/2023
Potassium		0.100	E	**11.8**	5.000	6.434	106.9	75	125	08/23/2023
Silicon	*	0.0500	BS	**10.3**	1.000	8.979	133.3	75	125	08/23/2023
Sodium		0.0500	BS	**408**	5.000	393.8	284.0	75	125	08/23/2023

Batch 211213 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-116CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**490**	5.000	475.1	302.2	492.0	0.35	08/23/2023
Magnesium		0.0500	S	**446**	5.000	429.2	338.6	449.3	0.72	08/23/2023
Potassium		0.100	E	**11.7**	5.000	6.434	104.5	11.78	1.04	08/23/2023
Silicon	*	0.0500	BS	**10.4**	1.000	8.979	141.8	10.31	0.82	08/23/2023
Sodium		0.0500	BS	**404**	5.000	393.8	206.2	408.0	0.96	08/23/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 212096 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	09/19/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	09/19/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	09/19/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	09/19/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	09/19/2023

Batch 212096 **SampType:** LCS Units **mg/L**

SampID: LCS-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.54**	2.500	0	101.7	85	115	09/19/2023
Iron		0.0400		**1.98**	2.000	0	99.2	85	115	09/19/2023
Magnesium		0.0500		**2.38**	2.500	0	95.2	85	115	09/19/2023
Potassium		0.100		**2.58**	2.500	0	103.3	85	115	09/19/2023
Sodium		0.0500		**2.40**	2.500	0	96.0	85	115	09/19/2023

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210037 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/16/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	07/29/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	07/29/2023
Boron		0.0250	JS	**0.024**	0.0093	0	254.0	-100	100	07/29/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	07/29/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	07/29/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	07/29/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/16/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	07/29/2023
Vanadium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	07/29/2023
Zinc		0.0132		**< 0.0132**	0.0059	0	0	-100	100	09/16/2023

Teklab, Inc.
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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210037 **SampType:** LCS Units **mg/L**
SampID: LCS-210037

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.99**	2.000	0	99.5	80	120	09/16/2023
Aluminum		0.0250	B	**1.97**	2.000	0	98.6	80	120	07/31/2023
Antimony		0.0010		**0.476**	0.5000	0	95.2	80	120	07/29/2023
Arsenic		0.0010		**0.513**	0.5000	0	102.5	80	120	07/29/2023
Boron		0.0250	B	**0.478**	0.5000	0	95.7	80	120	07/29/2023
Cadmium		0.0010		**0.0477**	0.0500	0	95.5	80	120	07/29/2023
Chromium		0.0015		**0.187**	0.2000	0	93.6	80	120	07/29/2023
Iron		0.0250		**1.76**	2.000	0	88.0	80	120	07/31/2023
Iron		0.0250		**1.96**	2.000	0	97.8	80	120	09/16/2023
Lead		0.0010		**0.481**	0.5000	0	96.2	80	120	07/29/2023
Manganese		0.0020		**0.451**	0.5000	0	90.3	80	120	07/31/2023
Manganese		0.0020		**0.502**	0.5000	0	100.3	80	120	09/16/2023
Selenium		0.0010		**0.485**	0.5000	0	97.0	80	120	07/31/2023
Vanadium		0.0050		**0.461**	0.5000	0	92.3	80	120	07/29/2023
Zinc		0.0132	B	**0.408**	0.5000	0	81.5	80	120	07/31/2023
Zinc		0.0132		**0.414**	0.5000	0	82.7	80	120	09/16/2023

Batch 210037 **SampType:** MS Units **mg/L**
SampID: 23070389-009DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.88**	2.000	0.01332	93.4	75	125	09/16/2023
Iron		0.0250		**1.90**	2.000	0.05624	92.3	75	125	09/16/2023
Manganese		0.0020		**0.889**	0.5000	0.4182	94.2	75	125	09/16/2023

Batch 210037 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-009DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.88**	2.000	0.01332	93.3	1.882	0.09	09/16/2023
Iron		0.0250		**1.89**	2.000	0.05624	91.7	1.902	0.63	09/16/2023
Manganese		0.0020		**0.884**	0.5000	0.4182	93.1	0.8891	0.60	09/16/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210142 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/18/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/03/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/18/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/18/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/16/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/18/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/18/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/16/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/18/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/03/2023
Vanadium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/03/2023
Zinc		0.0132		**< 0.0132**	0.0059	0	0	-100	100	09/16/2023

Batch 210142 **SampType:** LCS Units **mg/L**

SampID: LCS-210142

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.00**	2.000	0	99.8	80	120	09/18/2023
Antimony		0.0010		**0.433**	0.5000	0	86.6	80	120	08/03/2023
Arsenic		0.0010		**0.484**	0.5000	0	96.8	80	120	09/18/2023
Boron		0.0250		**0.470**	0.5000	0	94.0	80	120	09/18/2023
Cadmium		0.0010		**0.0455**	0.0500	0	90.9	80	120	09/16/2023
Chromium		0.0015		**0.194**	0.2000	0	97.2	80	120	09/18/2023
Iron		0.0250		**1.94**	2.000	0	97.1	80	120	09/18/2023
Lead		0.0010		**0.488**	0.5000	0	97.6	80	120	09/16/2023
Manganese		0.0020		**0.492**	0.5000	0	98.4	80	120	09/18/2023
Selenium		0.0010		**0.447**	0.5000	0	89.5	80	120	08/03/2023
Vanadium		0.0050		**0.429**	0.5000	0	85.8	80	120	08/03/2023
Zinc		0.0132		**0.410**	0.5000	0	82.0	80	120	09/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210142 **SampType:** MS Units **mg/L**

SampID: 23070389-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.532**	0.5000	0.001317	106.2	75	125	09/18/2023
Boron		0.0250	S	**0.870**	0.5000	0.1308	147.9	75	125	09/18/2023
Cadmium		0.0010		**0.0445**	0.0500	0	89.0	75	125	09/16/2023
Chromium		0.0015		**0.215**	0.2000	0.001789	106.5	75	125	09/18/2023
Iron		0.0250	S	**1.96**	2.000	0.7345	61.5	75	125	09/18/2023
Lead		0.0010		**0.498**	0.5000	0	99.6	75	125	09/16/2023
Manganese		0.0080	S	**1.80**	0.5000	2.459	-131.8	75	125	09/18/2023
Selenium		0.0010		**0.461**	0.5000	0	92.2	75	125	08/03/2023
Zinc		0.0132		**0.386**	0.5000	0	77.2	75	125	09/16/2023

Batch 210142 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-043CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		**0.491**	0.5000	0.001317	97.9	0.5323	8.12	09/18/2023
Boron		0.0250	S	**0.855**	0.5000	0.1308	144.8	0.8704	1.80	09/18/2023
Cadmium		0.0010		**0.0447**	0.0500	0	89.4	0.04451	0.46	09/16/2023
Chromium		0.0015		**0.186**	0.2000	0.001789	92.2	0.2149	14.32	09/18/2023
Iron		0.0250	S	**1.88**	2.000	0.7345	57.5	1.964	4.15	09/18/2023
Lead		0.0010		**0.505**	0.5000	0	100.9	0.4981	1.31	09/16/2023
Manganese		0.0080	S	**1.83**	0.5000	2.459	-125.5	1.800	1.73	09/18/2023
Selenium		0.0010		**0.467**	0.5000	0	93.3	0.4611	1.21	08/03/2023
Zinc		0.0132		**0.392**	0.5000	0	78.4	0.3861	1.51	09/16/2023

Batch 210298 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/16/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/16/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/16/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/16/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/16/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/16/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/16/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/04/2023
Zinc		0.0132		**< 0.0132**	0.0059	0	0	-100	100	09/16/2023

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Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210298 **SampType:** LCS Units **mg/L**

SampID: LCS-210298

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.86**	2.000	0	92.8	80	120	09/16/2023
Arsenic		0.0010		**0.478**	0.5000	0	95.5	80	120	09/16/2023
Boron		0.0250		**0.413**	0.5000	0	82.5	80	120	09/16/2023
Cadmium		0.0010		**0.0431**	0.0500	0	86.3	80	120	09/16/2023
Chromium		0.0015		**0.182**	0.2000	0	90.8	80	120	09/16/2023
Iron		0.0250		**1.82**	2.000	0	91.0	80	120	09/16/2023
Lead		0.0010		**0.460**	0.5000	0	92.1	80	120	09/16/2023
Manganese		0.0020		**0.471**	0.5000	0	94.2	80	120	09/16/2023
Selenium		0.0010		**0.410**	0.5000	0	82.1	80	120	08/04/2023
Zinc		0.0132		**0.547**	0.5000	0	109.4	80	120	09/19/2023

Batch 210298 **SampType:** MS Units **mg/L**

SampID: 23070389-048CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.510**	0.5000	0.0005942	102.0	75	125	09/16/2023
Boron		0.0250	S	**0.504**	0.5000	0.5350	-6.1	75	125	09/18/2023
Cadmium		0.0010		**0.0441**	0.0500	0	88.1	75	125	09/16/2023
Chromium		0.0015		**0.181**	0.2000	0.0007327	90.2	75	125	09/16/2023
Iron		0.0250		**1.86**	2.000	0.04155	91.0	75	125	09/16/2023
Lead		0.0010		**0.510**	0.5000	0	102.1	75	125	09/16/2023
Manganese		0.0080		**2.09**	0.5000	1.617	94.3	75	125	09/18/2023
Selenium		0.0010		**0.439**	0.5000	0	87.8	75	125	08/04/2023
Zinc		0.0132		**0.419**	0.5000	0	83.8	75	125	09/19/2023

Batch 210298 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-048CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		**0.498**	0.5000	0.0005942	99.6	0.5105	2.38	09/16/2023
Boron		0.0250	S	**0.509**	0.5000	0.5350	-5.2	0.5043	0.90	09/18/2023
Cadmium		0.0010		**0.0411**	0.0500	0	82.2	0.04406	6.96	09/16/2023
Chromium		0.0015		**0.178**	0.2000	0.0007327	88.7	0.1811	1.65	09/16/2023
Iron		0.0250		**1.78**	2.000	0.04155	87.1	1.861	4.30	09/16/2023
Lead		0.0010		**0.491**	0.5000	0	98.1	0.5104	3.95	09/16/2023
Manganese		0.0080		**2.15**	0.5000	1.617	106.3	2.088	2.82	09/18/2023
Selenium		0.0010		**0.436**	0.5000	0	87.2	0.4390	0.72	08/04/2023
Zinc		0.0132		**0.401**	0.5000	0	80.1	0.4188	4.40	09/19/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210567 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/11/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/10/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/10/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/10/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/10/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/11/2023
Vanadium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/11/2023
Zinc		0.0132		**< 0.0132**	0.0059	0	0	-100	100	09/10/2023

Batch 210567 **SampType:** LCS Units **mg/L**

SampID: LCS-210567

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.02**	2.000	0	100.8	80	120	09/11/2023
Antimony		0.0010		**0.462**	0.5000	0	92.3	80	120	08/11/2023
Arsenic		0.0010		**0.506**	0.5000	0	101.2	80	120	09/11/2023
Boron		0.0250		**0.470**	0.5000	0	94.0	80	120	09/11/2023
Cadmium		0.0010		**0.0480**	0.0500	0	96.0	80	120	09/11/2023
Chromium		0.0015		**0.195**	0.2000	0	97.3	80	120	09/11/2023
Iron		0.0250		**2.01**	2.000	0	100.5	80	120	09/11/2023
Lead		0.0010		**0.501**	0.5000	0	100.3	80	120	09/11/2023
Manganese		0.0020		**0.524**	0.5000	0	104.9	80	120	09/14/2023
Selenium		0.0010		**0.429**	0.5000	0	85.8	80	120	08/11/2023
Vanadium		0.0050		**0.453**	0.5000	0	90.7	80	120	08/11/2023
Zinc		0.0132		**0.466**	0.5000	0	93.3	80	120	09/14/2023
Zinc		0.0132		**0.440**	0.5000	0	87.9	80	120	09/14/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 210567 **SampType:** MS Units **mg/L**

SampID: 23070389-038CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.488**	0.5000	0	97.6	75	125	09/14/2023
Boron		0.0250		**0.486**	0.5000	0	97.3	75	125	09/14/2023
Cadmium		0.0010		**0.0460**	0.0500	0	92.0	75	125	09/14/2023
Chromium		0.0015		**0.187**	0.2000	0	93.6	75	125	09/14/2023
Iron		0.0250		**1.96**	2.000	0.09896	92.8	75	125	09/14/2023
Lead		0.0010		**0.499**	0.5000	0	99.9	75	125	09/14/2023
Manganese		0.0020		**0.495**	0.5000	0.01423	96.3	75	125	09/14/2023
Selenium		0.0010		**0.435**	0.5000	0	87.1	75	125	08/11/2023
Zinc		0.0132		**0.451**	0.5000	0.007144	88.8	75	125	09/14/2023

Batch 210567 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-038CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		**0.517**	0.5000	0	103.3	0.4878	5.73	09/14/2023
Boron		0.0250		**0.496**	0.5000	0	99.2	0.4863	1.95	09/14/2023
Cadmium		0.0010		**0.0488**	0.0500	0	97.7	0.04598	6.02	09/14/2023
Chromium		0.0015		**0.195**	0.2000	0	97.3	0.1873	3.79	09/14/2023
Iron		0.0250		**2.04**	2.000	0.09896	97.2	1.955	4.38	09/14/2023
Lead		0.0010		**0.509**	0.5000	0	101.8	0.4993	1.93	09/14/2023
Manganese		0.0020		**0.515**	0.5000	0.01423	100.2	0.4955	3.86	09/14/2023
Selenium		0.0010		**0.436**	0.5000	0	87.2	0.4353	0.19	08/11/2023
Zinc		0.0132		**0.439**	0.5000	0.007144	86.4	0.4509	2.68	09/14/2023

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Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 211013 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/16/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/08/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/08/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/08/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/16/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/08/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/08/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/30/2023
Vanadium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	08/30/2023
Zinc		0.0132		**< 0.0132**	0.0059	0	0	-100	100	09/08/2023

Batch 211013 **SampType:** LCS Units **mg/L**

SampID: LCS-211013

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.454**	0.5000	0	90.8	80	120	08/30/2023
Arsenic		0.0010		**0.536**	0.5000	0	107.3	80	120	09/16/2023
Boron		0.0250		**0.467**	0.5000	0	93.3	80	120	09/08/2023
Cadmium		0.0010		**0.0481**	0.0500	0	96.3	80	120	09/08/2023
Chromium		0.0015		**0.205**	0.2000	0	102.3	80	120	09/16/2023
Iron		0.0250		**2.05**	2.000	0	102.5	80	120	09/16/2023
Lead		0.0010		**0.493**	0.5000	0	98.5	80	120	09/08/2023
Manganese		0.0020		**0.500**	0.5000	0	100.1	80	120	09/08/2023
Selenium		0.0010		**0.438**	0.5000	0	87.6	80	120	08/30/2023
Vanadium		0.0050		**0.454**	0.5000	0	90.8	80	120	08/30/2023
Zinc		0.0132		**0.411**	0.5000	0	82.1	80	120	09/08/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 211013 **SampType:** MS Units **mg/L**

SampID: 23070389-112CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.569**	0.5000	0	113.9	75	125	09/16/2023
Boron		0.0250		**0.507**	0.5000	0.01606	98.1	75	125	09/08/2023
Cadmium		0.0010		**0.0491**	0.0500	0	98.3	75	125	09/08/2023
Chromium		0.0015		**0.217**	0.2000	0	108.3	75	125	09/16/2023
Iron		0.0250		**2.20**	2.000	0.02158	109.1	75	125	09/16/2023
Lead		0.0010		**0.505**	0.5000	0	101.1	75	125	09/08/2023
Manganese		0.0020		**0.517**	0.5000	0.02366	98.8	75	125	09/08/2023
Selenium		0.0010		**0.438**	0.5000	0	87.5	75	125	08/30/2023
Zinc		0.0132		**0.390**	0.5000	0	78.0	75	125	09/08/2023

Batch 211013 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-112CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		**0.567**	0.5000	0	113.3	0.5693	0.46	09/16/2023
Boron		0.0250		**0.489**	0.5000	0.01606	94.7	0.5067	3.46	09/08/2023
Cadmium		0.0010		**0.0505**	0.0500	0	101.0	0.04914	2.77	09/08/2023
Chromium		0.0015		**0.219**	0.2000	0	109.6	0.2166	1.21	09/16/2023
Iron		0.0250		**2.20**	2.000	0.02158	108.7	2.203	0.38	09/16/2023
Lead		0.0010		**0.530**	0.5000	0	106.1	0.5053	4.83	09/08/2023
Manganese		0.0020		**0.526**	0.5000	0.02366	100.5	0.5174	1.68	09/08/2023
Selenium		0.0010		**0.436**	0.5000	0	87.3	0.4377	0.29	08/30/2023
Zinc		0.0132		**0.408**	0.5000	0	81.6	0.3901	4.42	09/08/2023

Batch 211033 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211033

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/17/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/17/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/17/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/17/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/17/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/17/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/17/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/17/2023

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Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 211033 **SampType:** LCS Units **mg/L**

SampID: LCS-211033

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.07**	2.000	0	103.3	80	120	09/17/2023
Arsenic		0.0010		**0.501**	0.5000	0	100.1	80	120	09/17/2023
Boron		0.0250		**0.450**	0.5000	0	90.0	80	120	09/17/2023
Cadmium		0.0010		**0.0451**	0.0500	0	90.2	80	120	09/17/2023
Chromium		0.0015		**0.195**	0.2000	0	97.4	80	120	09/17/2023
Iron		0.0250		**1.97**	2.000	0	98.4	80	120	09/17/2023
Lead		0.0010		**0.485**	0.5000	0	96.9	80	120	09/17/2023
Manganese		0.0020		**0.504**	0.5000	0	100.9	80	120	09/17/2023

Batch 211033 **SampType:** MS Units **mg/L**

SampID: 23070389-117DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**1.89**	2.000	0	94.6	75	125	09/17/2023
Iron		0.0250		**1.87**	2.000	0.02484	92.3	75	125	09/17/2023
Manganese		0.0020		**0.592**	0.5000	0.1396	90.5	75	125	09/17/2023
Zinc		0.0132		**0.381**	0.5000	0	76.1	75	125	09/17/2023

Batch 211033 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-117DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**1.89**	2.000	0	94.7	1.891	0.16	09/17/2023
Iron		0.0250		**1.86**	2.000	0.02484	91.5	1.870	0.79	09/17/2023
Manganese		0.0020		**0.592**	0.5000	0.1396	90.4	0.5920	0.09	09/17/2023
Zinc		0.0132		**0.379**	0.5000	0	75.7	0.3806	0.52	09/17/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 209945 **SampType:** MBLK Units **mg/L**

SampID: MBLK-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/16/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	07/28/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/16/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	07/28/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	07/28/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/16/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/16/2023
Boron	*	0.0250		**< 0.0250**	0.0093	0	0	-100	100	07/28/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/16/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	07/28/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/16/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/16/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	07/28/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	07/28/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	07/28/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	07/28/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	07/28/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/16/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/16/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	07/28/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	07/28/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	07/28/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 209945 **SampType:** LCS Units **mg/L**

SampID: LCS-209945

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.19**	2.000	0	109.3	80	120	09/16/2023
Antimony		0.0010		**0.530**	0.5000	0	105.9	85	115	07/28/2023
Arsenic		0.0010		**0.534**	0.5000	0	106.8	80	120	09/16/2023
Arsenic		0.0010		**0.558**	0.5000	0	111.5	85	115	07/28/2023
Barium		0.0010		**2.31**	2.000	0	115.5	80	120	09/16/2023
Barium		0.0010		**2.19**	2.000	0	109.5	85	115	07/28/2023
Beryllium		0.0010		**0.0486**	0.0500	0	97.1	80	120	09/16/2023
Boron		0.0250		**0.511**	0.5000	0	102.2	80	120	09/16/2023
Boron	*	0.0250		**0.516**	0.5000	0	103.2	85	115	07/28/2023
Cadmium		0.0010		**0.0541**	0.0500	0	108.1	85	115	07/28/2023
Cadmium		0.0010		**0.0498**	0.0500	0	99.7	80	120	09/16/2023
Chromium		0.0015		**0.211**	0.2000	0	105.6	85	115	07/28/2023
Chromium		0.0015		**0.210**	0.2000	0	105.1	80	120	09/16/2023
Cobalt		0.0010		**0.546**	0.5000	0	109.2	85	115	07/28/2023
Iron		0.0250		**2.09**	2.000	0	104.4	80	120	09/16/2023
Lead		0.0010		**0.539**	0.5000	0	107.7	85	115	07/28/2023
Lead		0.0010		**0.523**	0.5000	0	104.7	80	120	09/16/2023
Lithium	*	0.0030		**0.514**	0.5000	0	102.7	85	115	07/28/2023
Manganese		0.0020		**0.519**	0.5000	0	103.8	85	115	07/28/2023
Manganese		0.0020		**0.537**	0.5000	0	107.4	80	120	09/16/2023
Molybdenum	*	0.0015		**0.516**	0.5000	0	103.2	85	115	07/28/2023
Molybdenum	*	0.0015		**0.505**	0.5000	0	100.9	80	120	09/16/2023
Selenium		0.0010		**0.519**	0.5000	0	103.9	85	115	07/28/2023
Thallium		0.0020		**0.258**	0.2500	0	103.3	85	115	07/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 209945 **SampType:** MS Units **mg/L**

SampID: 23070389-103CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.41**	2.000	0.4216	99.5	75	125	09/16/2023
Antimony		0.0010		**0.523**	0.5000	0.0005572	104.4	75	125	07/28/2023
Arsenic		0.0010		**0.480**	0.5000	0.06186	83.7	75	125	09/16/2023
Barium		0.0010		**2.14**	2.000	0.01384	106.1	75	125	09/16/2023
Beryllium		0.0010		**0.0470**	0.0500	0	94.0	75	125	09/16/2023
Boron		0.0250		**2.18**	0.5000	1.697	95.6	75	125	09/16/2023
Cadmium		0.0010		**0.0471**	0.0500	0	94.1	75	125	09/16/2023
Chromium		0.0015		**0.186**	0.2000	0.0007670	92.4	75	125	09/16/2023
Cobalt		0.0010		**0.527**	0.5000	0	105.4	75	125	07/28/2023
Iron		0.0250		**1.85**	2.000	0.04409	90.1	75	125	09/16/2023
Lead		0.0010		**0.514**	0.5000	0	102.8	75	125	09/16/2023
Lithium	*	0.0030		**0.531**	0.5000	0.02067	102.1	75	125	07/28/2023
Manganese		0.0020		**0.461**	0.5000	0.002062	91.8	75	125	09/16/2023
Molybdenum	*	0.0015		**0.500**	0.5000	0.04906	90.2	75	125	09/16/2023
Selenium		0.0010		**0.465**	0.5000	0.0007275	92.8	75	125	07/28/2023
Thallium		0.0020		**0.262**	0.2500	0	104.8	75	125	07/28/2023

Batch 209945 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-103CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**2.48**	2.000	0.4216	102.7	2.411	2.69	09/16/2023
Antimony		0.0010		**0.525**	0.5000	0.0005572	104.8	0.5226	0.37	07/28/2023
Arsenic		0.0010		**0.498**	0.5000	0.06186	87.3	0.4804	3.67	09/16/2023
Barium		0.0010		**2.25**	2.000	0.01384	111.7	2.136	5.06	09/16/2023
Beryllium		0.0010		**0.0474**	0.0500	0	94.8	0.04700	0.83	09/16/2023
Boron		0.0250		**2.23**	0.5000	1.697	107.5	2.175	2.69	09/16/2023
Cadmium		0.0010		**0.0485**	0.0500	0	96.9	0.04707	2.92	09/16/2023
Chromium		0.0015		**0.190**	0.2000	0.0007670	94.9	0.1856	2.57	09/16/2023
Cobalt		0.0010		**0.539**	0.5000	0	107.8	0.5272	2.19	07/28/2023
Iron		0.0250		**1.91**	2.000	0.04409	93.3	1.846	3.48	09/16/2023
Lead		0.0010		**0.520**	0.5000	0	103.9	0.5139	1.11	09/16/2023
Lithium	*	0.0030		**0.537**	0.5000	0.02067	103.2	0.5312	1.03	07/28/2023
Manganese		0.0020		**0.477**	0.5000	0.002062	95.1	0.4609	3.52	09/16/2023
Molybdenum	*	0.0015		**0.512**	0.5000	0.04906	92.6	0.5000	2.39	09/16/2023
Selenium		0.0010		**0.453**	0.5000	0.0007275	90.5	0.4646	2.46	07/28/2023
Thallium		0.0020		**0.262**	0.2500	0	104.9	0.2619	0.12	07/28/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210094 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	07/29/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/10/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	07/31/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	07/31/2023
Manganese		0.0020	S	**0.0054**	0.0008	0	717.6	-100	100	09/10/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/10/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	07/29/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	07/29/2023

Batch 210094 **SampType:** LCS Units **mg/L**

SampID: LCS-210094

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.09**	2.000	0	104.4	80	120	09/10/2023
Antimony		0.0010		**0.527**	0.5000	0	105.4	80	120	07/29/2023
Arsenic		0.0010		**0.510**	0.5000	0	102.0	80	120	09/10/2023
Barium		0.0010		**2.16**	2.000	0	107.9	85	115	08/02/2023
Barium		0.0010		**2.26**	2.000	0	112.8	80	120	09/10/2023
Beryllium		0.0010		**0.0447**	0.0500	0	89.3	80	120	09/10/2023
Boron		0.0250		**0.470**	0.5000	0	94.0	80	120	09/10/2023
Cadmium		0.0010		**0.0511**	0.0500	0	102.2	80	120	09/10/2023
Chromium		0.0015		**0.204**	0.2000	0	101.8	80	120	09/10/2023
Cobalt		0.0010		**0.496**	0.5000	0	99.3	80	120	07/31/2023
Iron		0.0250		**2.03**	2.000	0	101.6	80	120	09/10/2023
Lead		0.0010		**0.554**	0.5000	0	110.7	80	120	09/10/2023
Lithium	*	0.0030		**0.535**	0.5000	0	107.0	85	115	08/02/2023
Manganese		0.0020	B	**0.513**	0.5000	0	102.6	80	120	09/10/2023
Selenium		0.0010		**0.503**	0.5000	0	100.5	85	115	08/02/2023
Thallium		0.0020		**0.263**	0.2500	0	105.4	80	120	07/29/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210094 **SampType:** MS Units **mg/L**

SampID: 23070389-010CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**1.16**	1.000	0	116.4	75	125	07/31/2023
Beryllium		0.0010		**0.0989**	0.1000	0	98.9	75	125	07/31/2023
Boron		0.0250	S	**1.18**	1.000	0.6045	57.4	75	125	08/02/2023
Cadmium		0.0010		**0.108**	0.1000	0	107.6	75	125	07/31/2023
Chromium		0.0015		**0.392**	0.4000	0.0009210	97.8	75	125	07/31/2023
Cobalt		0.0010		**1.01**	1.000	0.0001714	101.0	75	125	07/31/2023
Lead		0.0010		**1.00**	1.000	0	100.3	75	125	07/31/2023
Selenium		0.0010		**0.956**	1.000	0	95.6	75	125	08/02/2023
Thallium		0.0020		**0.484**	0.5000	0	96.7	75	125	07/31/2023

Batch 210094 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-010CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		**1.16**	1.000	0	116.0	1.164	0.39	07/31/2023
Beryllium		0.0010		**0.0956**	0.1000	0	95.6	0.09893	3.43	07/31/2023
Boron		0.0250	S	**1.13**	1.000	0.6045	52.6	1.179	4.20	08/02/2023
Cadmium		0.0010		**0.108**	0.1000	0	108.4	0.1076	0.71	07/31/2023
Chromium		0.0015		**0.382**	0.4000	0.0009210	95.4	0.3921	2.51	07/31/2023
Cobalt		0.0010		**0.989**	1.000	0.0001714	98.9	1.010	2.06	07/31/2023
Lead		0.0010		**1.00**	1.000	0	100.0	1.003	0.30	07/31/2023
Selenium		0.0010		**0.983**	1.000	0	98.3	0.9558	2.83	08/02/2023
Thallium		0.0020		**0.484**	0.5000	0	96.8	0.4836	0.04	07/31/2023

Batch 210094 **SampType:** MS Units **mg/L**

SampID: 23070389-064CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**0.949**	1.000	0.1017	84.8	75	125	09/15/2023
Iron		0.250	S	**38.2**	4.000	54.10	-397.6	75	125	09/18/2023

Batch 210094 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-064CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250		**0.966**	1.000	0.1017	86.4	0.9493	1.70	09/15/2023
Iron		0.250	S	**39.7**	4.000	54.10	-360.0	38.20	3.86	09/18/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210149 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/02/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/02/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	08/02/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	08/04/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/02/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	08/02/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/02/2023
Iron	*	0.0250		**< 0.0250**	0.0115	0	0	-100	100	08/02/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/02/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	08/02/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	08/04/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/02/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	08/02/2023

Batch 210149 **SampType:** LCS Units **mg/L**

SampID: LCS-210149

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		**0.480**	0.5000	0	96.0	85	115	08/02/2023
Arsenic		0.0010		**0.513**	0.5000	0	102.5	85	115	08/02/2023
Barium		0.0010		**1.99**	2.000	0	99.3	85	115	08/02/2023
Beryllium		0.0010		**0.0503**	0.0500	0	100.5	85	115	08/04/2023
Boron		0.0250		**0.472**	0.5000	0	94.4	80	120	09/10/2023
Cadmium		0.0010		**0.0483**	0.0500	0	96.6	85	115	08/02/2023
Chromium		0.0015		**0.190**	0.2000	0	94.9	85	115	08/02/2023
Cobalt		0.0010		**0.485**	0.5000	0	97.1	85	115	08/02/2023
Iron	*	0.0250		**1.89**	2.000	0	94.6	85	115	08/02/2023
Lead		0.0010		**0.489**	0.5000	0	97.7	85	115	08/02/2023
Manganese		0.0020		**0.472**	0.5000	0	94.3	85	115	08/02/2023
Molybdenum	*	0.0015		**0.502**	0.5000	0	100.3	85	115	08/04/2023
Selenium		0.0010		**0.487**	0.5000	0	97.5	85	115	08/02/2023
Thallium		0.0020		**0.233**	0.2500	0	93.4	85	115	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210149 **SampType:** MS Units **mg/L**

SampID: 23070389-068BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.250	S	**26.5**	0.5000	37.52	-2197	75	125	09/18/2023

Batch 210149 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-068BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.250	S	**27.0**	0.5000	37.52	-2110	26.53	1.63	09/18/2023

Batch 210259 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/04/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/04/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/10/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/04/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	08/04/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/04/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/04/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	08/04/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/10/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	08/04/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/16/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/04/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	08/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210259 **SampType:** LCS Units **mg/L**

SampID: LCS-210259

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.06**	2.000	0	102.9	80	120	09/10/2023
Antimony		0.0010		**0.489**	0.5000	0	97.8	85	115	08/04/2023
Arsenic		0.0010		**0.498**	0.5000	0	99.6	85	115	08/04/2023
Arsenic		0.0010		**0.514**	0.5000	0	102.8	80	120	09/10/2023
Barium		0.0010		**2.15**	2.000	0	107.6	80	120	09/10/2023
Beryllium		0.0010		**0.0473**	0.0500	0	94.7	80	120	09/10/2023
Boron		0.0250		**0.491**	0.5000	0	98.2	80	120	09/10/2023
Cadmium		0.0010		**0.0475**	0.0500	0	95.1	85	115	08/04/2023
Cadmium		0.0010		**0.0498**	0.0500	0	99.5	80	120	09/10/2023
Chromium		0.0015		**0.191**	0.2000	0	95.7	85	115	08/04/2023
Chromium		0.0015		**0.202**	0.2000	0	100.9	80	120	09/10/2023
Cobalt		0.0010		**0.498**	0.5000	0	99.7	85	115	08/04/2023
Iron		0.0250		**2.01**	2.000	0	100.4	80	120	09/10/2023
Lead		0.0010		**0.534**	0.5000	0	106.7	85	115	08/04/2023
Lead		0.0010		**0.541**	0.5000	0	108.3	80	120	09/10/2023
Lithium	*	0.0030		**0.529**	0.5000	0	105.8	85	115	08/04/2023
Manganese		0.0020		**0.517**	0.5000	0	103.3	80	120	09/10/2023
Molybdenum	*	0.0015		**0.469**	0.5000	0	93.9	85	115	08/04/2023
Molybdenum	*	0.0015		**0.517**	0.5000	0	103.5	80	120	09/16/2023
Selenium		0.0010		**0.447**	0.5000	0	89.3	85	115	08/04/2023
Thallium		0.0020		**0.242**	0.2500	0	96.6	85	115	08/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210259 **SampType:** MS Units **mg/L**

SampID: 23070389-014CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**4.01**	4.000	0.07512	98.3	75	125	09/16/2023
Antimony		0.0010		**1.17**	1.000	0	116.7	75	125	08/04/2023
Arsenic		0.0010		**1.06**	1.000	0.009417	104.7	75	125	09/16/2023
Barium		0.0010		**4.91**	4.000	0.03258	122.0	75	125	09/16/2023
Beryllium		0.0010		**0.0950**	0.1000	0	95.0	75	125	09/16/2023
Boron		0.0250		**1.06**	1.000	0.09234	97.1	75	125	09/16/2023
Cadmium		0.0010		**0.108**	0.1000	0	108.4	75	125	09/16/2023
Chromium		0.0015		**0.392**	0.4000	0.001100	97.7	75	125	09/16/2023
Cobalt		0.0010		**0.997**	1.000	0.0001756	99.7	75	125	08/04/2023
Iron		0.0250		**4.05**	4.000	0.1391	97.8	75	125	09/16/2023
Lead		0.0010		**1.05**	1.000	0	104.8	75	125	09/16/2023
Lithium	*	0.0030		**1.06**	1.000	0.02149	103.5	75	125	08/08/2023
Manganese		0.0020		**1.35**	1.000	0.3831	96.5	75	125	09/16/2023
Molybdenum	*	0.0015		**1.19**	1.000	0.008342	118.7	75	125	09/16/2023
Selenium		0.0010		**1.03**	1.000	0	102.8	75	125	08/04/2023
Thallium		0.0020		**0.507**	0.5000	0	101.5	75	125	08/04/2023

Batch 210259 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-014CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**4.01**	4.000	0.07512	98.4	4.009	0.10	09/16/2023
Antimony		0.0010	SE	**1.31**	1.000	0	130.6	1.167	11.23	08/04/2023
Arsenic		0.0010		**1.06**	1.000	0.009417	105.0	1.057	0.23	09/16/2023
Barium		0.0010		**4.99**	4.000	0.03258	124.0	4.912	1.61	09/16/2023
Beryllium		0.0010		**0.0950**	0.1000	0	95.0	0.09499	0.05	09/16/2023
Boron		0.0250		**1.07**	1.000	0.09234	97.6	1.063	0.42	09/16/2023
Cadmium		0.0010		**0.114**	0.1000	0	114.4	0.1084	5.41	09/16/2023
Chromium		0.0015		**0.395**	0.4000	0.001100	98.4	0.3918	0.70	09/16/2023
Cobalt		0.0010		**1.04**	1.000	0.0001756	104.5	0.9972	4.67	08/04/2023
Iron		0.0250		**4.10**	4.000	0.1391	99.0	4.051	1.20	09/16/2023
Lead		0.0010		**1.06**	1.000	0	105.8	1.048	0.94	09/16/2023
Lithium	*	0.0030		**1.05**	1.000	0.02149	103.1	1.057	0.39	08/08/2023
Manganese		0.0020		**1.37**	1.000	0.3831	98.4	1.348	1.39	09/16/2023
Molybdenum	*	0.0015	E	**1.25**	1.000	0.008342	124.6	1.195	4.84	09/16/2023
Selenium		0.0010		**1.15**	1.000	0	114.8	1.028	11.02	08/04/2023
Thallium		0.0020		**0.527**	0.5000	0	105.4	0.5073	3.78	08/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210307 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/15/2023
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/10/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/04/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/10/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/04/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/10/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/15/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/10/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/10/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/10/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/04/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/10/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	08/04/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/10/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/15/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/15/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/04/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	08/04/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210307 **SampType:** LCS Units **mg/L**

SampID: LCS-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.09**	2.000	0	104.6	80	120	09/15/2023
Aluminum		0.0250		**2.06**	2.000	0	103.2	80	120	09/10/2023
Antimony		0.0010		**0.484**	0.5000	0	96.8	80	120	08/04/2023
Arsenic		0.0010		**0.507**	0.5000	0	101.4	80	120	09/10/2023
Arsenic		0.0010		**0.509**	0.5000	0	101.7	80	120	08/04/2023
Barium		0.0010		**2.21**	2.000	0	110.6	80	120	09/10/2023
Beryllium		0.0010		**0.0453**	0.0500	0	90.6	80	120	09/10/2023
Boron		0.0250		**0.469**	0.5000	0	93.7	80	120	09/10/2023
Boron		0.0250		**0.447**	0.5000	0	89.4	80	120	09/15/2023
Cadmium		0.0010		**0.0495**	0.0500	0	99.0	80	120	09/10/2023
Chromium		0.0015		**0.198**	0.2000	0	99.2	80	120	09/10/2023
Cobalt		0.0010		**0.522**	0.5000	0	104.4	80	120	08/04/2023
Iron		0.0250		**1.97**	2.000	0	98.7	80	120	09/10/2023
Lead		0.0010		**0.538**	0.5000	0	107.5	80	120	09/10/2023
Lithium	*	0.0030		**0.517**	0.5000	0	103.4	80	120	08/04/2023
Manganese		0.0020		**0.533**	0.5000	0	106.6	80	120	09/15/2023
Manganese		0.0020		**0.502**	0.5000	0	100.5	80	120	09/10/2023
Molybdenum	*	0.0015		**0.494**	0.5000	0	98.8	80	120	09/15/2023
Selenium		0.0010		**0.446**	0.5000	0	89.2	80	120	08/04/2023
Thallium		0.0020		**0.244**	0.2500	0	97.6	80	120	08/04/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210307 **SampType:** LCSD Units **mg/L** RPD Limit **20**

SampID: LCSD-210307

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**2.10**	2.000	0	105.1	2.092	0.44	09/15/2023
Antimony		0.0010		**0.499**	0.5000	0	99.9	0.4841	3.11	08/04/2023
Arsenic		0.0010		**0.530**	0.5000	0	106.0	0.5087	4.11	08/04/2023
Arsenic		0.0010		**0.535**	0.5000	0	106.9	0.5087	4.95	09/10/2023
Barium		0.0010		**2.23**	2.000	0	111.7	1.971	12.51	09/10/2023
Beryllium		0.0010		**0.0475**	0.0500	0	94.9	0.04778	0.67	09/10/2023
Boron		0.0250		**0.448**	0.5000	0	89.7	0.4470	0.30	09/15/2023
Cadmium		0.0010		**0.0511**	0.0500	0	102.2	0.04784	6.58	09/10/2023
Chromium		0.0015		**0.202**	0.2000	0	101.2	0.1964	2.98	09/10/2023
Cobalt		0.0010		**0.538**	0.5000	0	107.7	0.5222	3.04	08/04/2023
Iron		0.0250		**2.02**	2.000	0	101.2	1.958	3.27	09/10/2023
Lead		0.0010		**0.559**	0.5000	0	111.9	0.5248	6.36	09/10/2023
Lithium	*	0.0030		**0.533**	0.5000	0	106.7	0.5169	3.13	08/04/2023
Manganese		0.0020		**0.535**	0.5000	0	107.1	0.5328	0.49	09/15/2023
Manganese		0.0020		**0.515**	0.5000	0	102.9	0.4812	6.73	09/10/2023
Molybdenum	*	0.0015		**0.498**	0.5000	0	99.6	0.4940	0.80	09/15/2023
Selenium		0.0010		**0.466**	0.5000	0	93.2	0.4458	4.38	08/04/2023
Thallium		0.0020		**0.254**	0.2500	0	101.7	0.2441	4.10	08/04/2023

Batch 210483 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/11/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/18/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/11/2023

Batch 210483 **SampType:** LCS Units **mg/L**

SampID: LCS-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		**0.563**	0.5000	0	112.5	85	115	08/11/2023
Boron		0.0250		**0.493**	0.5000	0	98.7	80	120	09/18/2023
Selenium		0.0010		**0.502**	0.5000	0	100.5	85	115	08/11/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210483 **SampType:** LCSD Units **mg/L** RPD Limit **20**

SampID: LCSD-210483

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		**0.548**	0.5000	0	109.6	0.5627	2.63	08/11/2023
Boron		0.0250		**0.503**	0.5000	0	100.7	0.4934	1.97	09/18/2023
Selenium		0.0010		**0.483**	0.5000	0	96.7	0.5023	3.85	08/11/2023

Batch 210625 **SampType:** MBLK Units **mg/L**

SampID: MBLK-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/15/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/11/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/11/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/15/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/15/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/15/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/15/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	09/15/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/15/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/11/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/15/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/15/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	08/11/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/15/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/15/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/11/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	08/11/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 210625 **SampType:** LCS Units **mg/L**

SampID: LCS-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.21**	2.000	0	110.4	80	120	09/15/2023
Antimony		0.0010		**0.498**	0.5000	0	99.6	85	115	08/11/2023
Arsenic		0.0010		**0.517**	0.5000	0	103.4	85	115	08/11/2023
Arsenic		0.0010		**0.553**	0.5000	0	110.7	80	120	09/15/2023
Barium		0.0010		**2.30**	2.000	0	114.9	80	120	09/15/2023
Beryllium		0.0010		**0.0524**	0.0500	0	104.7	80	120	09/15/2023
Boron		0.0250		**0.520**	0.5000	0	104.0	80	120	09/15/2023
Cadmium		0.0010		**0.0547**	0.0500	0	109.4	80	120	09/15/2023
Chromium		0.0015		**0.215**	0.2000	0	107.7	80	120	09/15/2023
Cobalt		0.0010		**0.496**	0.5000	0	99.1	85	115	08/11/2023
Iron		0.0250		**2.23**	2.000	0	111.5	80	120	09/15/2023
Lead		0.0010		**0.539**	0.5000	0	107.8	80	120	09/15/2023
Lithium	*	0.0030		**0.472**	0.5000	0	94.4	85	115	08/11/2023
Manganese		0.0020		**0.559**	0.5000	0	111.7	80	120	09/15/2023
Molybdenum	*	0.0015		**0.541**	0.5000	0	108.2	80	120	09/15/2023
Selenium		0.0010		**0.482**	0.5000	0	96.4	85	115	08/11/2023
Thallium		0.0020		**0.242**	0.2500	0	97.0	85	115	08/11/2023

Batch 210625 **SampType:** LCSD Units **mg/L** RPD Limit **20**

SampID: LCSD-210625

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		**0.512**	0.5000	0	102.4	0.4978	2.84	08/11/2023
Arsenic		0.0010		**0.534**	0.5000	0	106.8	0.5169	3.24	08/11/2023
Cobalt		0.0010		**0.494**	0.5000	0	98.9	0.4956	0.26	08/11/2023
Lithium	*	0.0030		**0.473**	0.5000	0	94.7	0.4721	0.28	08/11/2023
Selenium		0.0010		**0.477**	0.5000	0	95.4	0.4818	1.06	08/11/2023
Thallium		0.0020		**0.246**	0.2500	0	98.4	0.2424	1.52	08/11/2023

Batch 211012 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/16/2023
Iron		0.0250		**< 0.0250**	0.0175	0	0	-100	100	09/16/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211012 **SampType:** LCS Units **mg/L**
SampID: LCS-211012

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**0.514**	0.5000	0	102.8	80	120	09/17/2023
Iron		0.0250		**2.16**	2.000	0	108.0	80	120	09/17/2023

Batch 211012 **SampType:** MS Units **mg/L**
SampID: 23070389-114CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0250		**0.590**	0.5000	0.09343	99.3	75	125	09/17/2023
Iron		0.0250		**9.67**	2.000	7.327	117.4	75	125	09/17/2023

Batch 211012 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-114CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0250		**0.590**	0.5000	0.09343	99.4	0.5900	0.03	09/17/2023
Iron		0.0250		**9.70**	2.000	7.327	118.8	9.674	0.30	09/17/2023

Batch 211034 **SampType:** MBLK Units **mg/L**
SampID: MBLK-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/16/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/30/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/16/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/16/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	09/16/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	09/16/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/30/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/16/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/30/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/16/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	08/30/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/16/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	09/16/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/30/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	08/30/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211034 **SampType:** LCS Units **mg/L**

SampID: LCS-211034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	S	**2.50**	2.000	0	125.0	80	120	09/16/2023
Antimony		0.0010		**0.501**	0.5000	0	100.3	85	115	08/30/2023
Arsenic		0.0010		**0.598**	0.5000	0	119.7	80	120	09/16/2023
Barium		0.0010	S	**2.67**	2.000	0	133.6	80	120	09/16/2023
Beryllium		0.0010		**0.0567**	0.0500	0	113.3	80	120	09/16/2023
Boron		0.0250		**0.588**	0.5000	0	117.7	80	120	09/16/2023
Cadmium		0.0010		**0.0479**	0.0500	0	95.7	85	115	08/30/2023
Chromium		0.0015	S	**0.242**	0.2000	0	120.9	80	120	09/16/2023
Cobalt		0.0010		**0.501**	0.5000	0	100.2	80	120	08/30/2023
Iron		0.0250		**2.39**	2.000	0	119.5	80	120	09/16/2023
Lead		0.0010	S	**0.609**	0.5000	0	121.9	80	120	09/16/2023
Lithium	*	0.0030		**0.508**	0.5000	0	101.6	80	120	08/30/2023
Manganese		0.0020	S	**0.618**	0.5000	0	123.6	80	120	09/16/2023
Molybdenum	*	0.0015		**0.580**	0.5000	0	116.1	80	120	09/16/2023
Selenium		0.0010		**0.454**	0.5000	0	90.8	85	115	08/30/2023
Thallium		0.0020		**0.223**	0.2500	0	89.2	85	115	08/30/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211213 **SampType:** MBLK Units **mg/L**

SampID: MBLK-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	S	**0.0291**	0.0125	0	232.7	-100	100	08/31/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/31/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/06/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	08/31/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/16/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/10/2023
Beryllium		0.0010		**< 0.0010**	0.0002	0	0	-100	100	08/31/2023
Boron		0.0250		**< 0.0250**	0.0093	0	0	-100	100	08/31/2023
Cadmium		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/31/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	08/31/2023
Cobalt		0.0010		**< 0.0010**	0.0001	0	0	-100	100	08/31/2023
Iron		0.0250		**< 0.0250**	0.0115	0	0	-100	100	08/31/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/16/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/10/2023
Lithium	*	0.0030		**< 0.0030**	0.0015	0	0	-100	100	08/31/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	08/31/2023
Molybdenum	*	0.0015		**< 0.0015**	0.0006	0	0	-100	100	08/31/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	08/31/2023
Thallium		0.0020		**< 0.0020**	0.0010	0	0	-100	100	08/31/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211213 **SampType:** LCS Units **mg/L**

SampID: LCS-211213

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	B	**2.12**	2.000	0	106.1	80	120	08/31/2023
Antimony		0.0010		**0.573**	0.5000	0	114.6	80	120	08/31/2023
Arsenic		0.0010		**0.506**	0.5000	0	101.1	85	115	09/06/2023
Arsenic		0.0010		**0.592**	0.5000	0	118.4	80	120	08/31/2023
Beryllium		0.0010		**0.0537**	0.0500	0	107.4	80	120	08/31/2023
Boron		0.0250		**0.516**	0.5000	0	103.2	80	120	08/31/2023
Cadmium		0.0010		**0.0558**	0.0500	0	111.5	80	120	08/31/2023
Chromium		0.0015		**0.216**	0.2000	0	108.2	80	120	08/31/2023
Cobalt		0.0010		**0.549**	0.5000	0	109.8	80	120	08/31/2023
Iron		0.0250		**2.18**	2.000	0	109.0	80	120	08/31/2023
Lead		0.0010	S	**0.624**	0.5000	0	124.7	80	120	09/10/2023
Lithium	*	0.0030		**0.546**	0.5000	0	109.2	80	120	08/31/2023
Manganese		0.0020		**0.533**	0.5000	0	106.7	80	120	08/31/2023
Molybdenum	*	0.0015		**0.544**	0.5000	0	108.9	80	120	08/31/2023
Selenium		0.0010		**0.522**	0.5000	0	104.4	80	120	08/31/2023
Thallium		0.0020		**0.268**	0.2500	0	107.3	80	120	08/31/2023

Batch 211213 **SampType:** MS Units **mg/L**

SampID: 23070389-116CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250	B	**4.46**	4.000	0.3459	102.8	75	125	08/31/2023
Antimony		0.0010	SE	**1.28**	1.000	0	128.0	75	125	08/31/2023
Arsenic		0.0010		**1.11**	1.000	0.0009230	111.2	75	125	08/31/2023
Beryllium		0.0010		**0.104**	0.1000	0.0003817	103.6	75	125	08/31/2023
Boron		0.0250		**1.18**	1.000	0.1889	99.4	75	125	08/31/2023
Cadmium		0.0010		**0.112**	0.1000	0	111.7	75	125	08/31/2023
Chromium		0.0015		**0.405**	0.4000	0.002169	100.7	75	125	08/31/2023
Cobalt		0.0010		**0.883**	1.000	0.001562	88.2	75	125	08/31/2023
Iron		0.0250		**4.86**	4.000	0.7602	102.5	75	125	08/31/2023
Lead		0.0010		**1.23**	1.000	0	123.0	75	125	09/10/2023
Lithium	*	0.0030		**1.23**	1.000	0.1897	103.7	75	125	08/31/2023
Manganese		0.0020		**1.19**	1.000	0.2869	90.7	75	125	08/31/2023
Molybdenum	*	0.0015		**1.15**	1.000	0.001515	115.2	75	125	08/31/2023
Selenium		0.0010		**0.984**	1.000	0	98.4	75	125	08/31/2023
Thallium		0.0020		**0.519**	0.5000	0	103.9	75	125	08/31/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 211213 **SampType:** MSD Units **mg/L** RPD Limit **20**

SampID: 23070389-116CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250	B	**4.44**	4.000	0.3459	102.5	4.459	0.31	08/31/2023
Antimony		0.0010	SE	**1.27**	1.000	0	126.7	1.280	1.06	08/31/2023
Arsenic		0.0010		**1.11**	1.000	0.0009230	111.3	1.113	0.11	08/31/2023
Beryllium		0.0010		**0.104**	0.1000	0.0003817	103.7	0.1040	0.08	08/31/2023
Boron		0.0250		**1.18**	1.000	0.1889	99.5	1.183	0.08	08/31/2023
Cadmium		0.0010		**0.110**	0.1000	0	109.9	0.1117	1.63	08/31/2023
Chromium		0.0015		**0.395**	0.4000	0.002169	98.2	0.4049	2.49	08/31/2023
Cobalt		0.0010		**0.881**	1.000	0.001562	88.0	0.8834	0.22	08/31/2023
Iron		0.0250		**4.88**	4.000	0.7602	103.1	4.862	0.43	08/31/2023
Lead		0.0010		**1.20**	1.000	0	119.8	1.230	2.61	09/10/2023
Lithium	*	0.0030		**1.19**	1.000	0.1897	100.3	1.227	2.82	08/31/2023
Manganese		0.0020		**1.19**	1.000	0.2869	90.3	1.194	0.32	08/31/2023
Molybdenum	*	0.0015		**1.13**	1.000	0.001515	112.9	1.154	2.06	08/31/2023
Selenium		0.0010		**0.989**	1.000	0	98.9	0.9839	0.47	08/31/2023
Thallium		0.0020		**0.509**	0.5000	0	101.9	0.5194	1.96	08/31/2023

Batch 212096 **SampType:** MBLK Units **mg/L**

SampID: MBLK-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**< 0.0250**	0.0125	0	0	-100	100	09/20/2023
Antimony		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/21/2023
Arsenic		0.0010		**< 0.0010**	0.0004	0	0	-100	100	09/21/2023
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/20/2023
Chromium		0.0015		**< 0.0015**	0.0007	0	0	-100	100	09/20/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/21/2023
Lead		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/20/2023
Manganese		0.0020		**< 0.0020**	0.0008	0	0	-100	100	09/20/2023
Selenium		0.0010		**< 0.0010**	0.0006	0	0	-100	100	09/21/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 212096 **SampType:** LCS Units **mg/L**
SampID: LCS-212096

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**2.07**	2.000	0	103.5	80	120	09/20/2023
Antimony		0.0010		**0.501**	0.5000	0	100.2	85	115	09/21/2023
Arsenic		0.0010		**0.504**	0.5000	0	100.8	85	115	09/21/2023
Barium		0.0010		**2.14**	2.000	0	106.8	80	120	09/20/2023
Chromium		0.0015		**0.213**	0.2000	0	106.3	80	120	09/20/2023
Lead		0.0010		**0.493**	0.5000	0	98.5	85	115	09/21/2023
Lead		0.0010		**0.529**	0.5000	0	105.7	80	120	09/20/2023
Manganese		0.0020		**0.520**	0.5000	0	104.0	80	120	09/20/2023
Selenium		0.0010		**0.507**	0.5000	0	101.5	85	115	09/22/2023

Batch 212096 **SampType:** MS Units **mg/L**
SampID: 23070389-117CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Aluminum		0.0250		**4.09**	4.000	0.3606	93.3	75	125	09/20/2023
Barium		0.0010		**4.73**	4.000	0.01058	118.0	75	125	09/20/2023
Chromium		0.0015		**0.391**	0.4000	0.001907	97.4	75	125	09/20/2023
Lead		0.0010		**1.09**	1.000	0	109.4	75	125	09/20/2023
Manganese		0.0020		**1.03**	1.000	0.09165	93.4	75	125	09/20/2023

Batch 212096 **SampType:** MSD Units **mg/L** RPD Limit **20**
SampID: 23070389-117CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Aluminum		0.0250		**4.44**	4.000	0.3606	101.9	4.094	8.02	09/20/2023
Barium		0.0010		**4.85**	4.000	0.01058	120.9	4.732	2.37	09/20/2023
Chromium		0.0015		**0.415**	0.4000	0.001907	103.3	0.3915	5.82	09/20/2023
Lead		0.0010		**1.13**	1.000	0	113.4	1.094	3.56	09/20/2023
Manganese		0.0020		**1.10**	1.000	0.09165	100.6	1.025	6.85	09/20/2023

Batch 212110 **SampType:** MBLK Units **mg/L**
SampID: MBLK-212110

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0010		**< 0.0010**	0.0007	0	0	-100	100	09/20/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 212110 **SampType:** LCS Units **mg/L**
SampID: LCS-212110

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0010		**2.30**	2.000	0	114.9	80	120	09/20/2023

Batch 212110 **SampType:** LCSD Units **mg/L** RPD Limit **20**
SampID: LCSD-212110

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0010		**2.25**	2.000	0	112.4	2.298	2.15	09/20/2023

SW-846 7470A (DISSOLVED)

Batch 210195 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210195

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/01/2023

Batch 210195 **SampType:** LCS Units **mg/L**
SampID: LCS-210195

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00463**	0.0050	0	92.7	85	115	08/01/2023

Batch 210305 **SampType:** MS Units **mg/L**
SampID: 23070389-061CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00828**	0.0100	0.0001390	81.4	75	125	08/03/2023

Batch 210305 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-061CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00857**	0.0100	0.0001390	84.3	0.008284	3.39	08/03/2023

Batch 210306 **SampType:** MS Units **mg/L**
SampID: 23070389-064DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00471**	0.0050	0	94.2	75	125	08/04/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 7470A (DISSOLVED)

Batch 210306 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-064DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00458**	0.0050	0	91.6	0.004710	2.75	08/04/2023

Batch 211189 **SampType:** MS Units **mg/L**
SampID: 23070389-114DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00557**	0.0050	0	111.4	75	125	08/23/2023

Batch 211189 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-114DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00585**	0.0050	0	117.0	0.005571	4.86	08/23/2023

SW-846 7470A (TOTAL)

Batch 209946 **SampType:** MBLK Units **mg/L**
SampID: MBLK-209946

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	07/26/2023

Batch 209946 **SampType:** LCS Units **mg/L**
SampID: LCS-209946

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00513**	0.0050	0	102.6	85	115	07/26/2023

Batch 209946 **SampType:** MS Units **mg/L**
SampID: 23070389-015CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00520**	0.0050	0	104.0	75	125	07/26/2023

Batch 209946 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-015CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00493**	0.0050	0	98.7	0.005202	5.29	07/26/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 7470A (TOTAL)

Batch 210195 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210195

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/01/2023

Batch 210195 **SampType:** LCS Units **mg/L**
SampID: LCS-210195

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00463**	0.0050	0	92.7	85	115	08/01/2023

Batch 210195 **SampType:** MS Units **mg/L**
SampID: 23070389-108CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00472**	0.0050	0	94.5	75	125	08/01/2023

Batch 210195 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-108CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00478**	0.0050	0	95.5	0.004723	1.11	08/01/2023

Batch 210255 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210255

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/02/2023

Batch 210255 **SampType:** LCS Units **mg/L**
SampID: LCS-210255

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00535**	0.0050	0	107.0	85	115	08/02/2023

Batch 210255 **SampType:** MS Units **mg/L**
SampID: 23070389-012CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00530**	0.0050	0	106.1	75	125	08/02/2023

Batch 210255 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-012CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00514**	0.0050	0	102.7	0.005304	3.21	08/02/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23070389

Client Project: NEW-23Q3 **Report Date:** 09-Nov-23

SW-846 7470A (TOTAL)

Batch 210305 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210305

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/03/2023

Batch 210305 **SampType:** LCS Units **mg/L**
SampID: LCS-210305

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00469**	0.0050	0	93.8	85	115	08/03/2023

Batch 210305 **SampType:** MS Units **mg/L**
SampID: 23070389-005CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00810**	0.0100	0	81.0	75	125	08/03/2023

Batch 210305 **SampType:** MSD Units **mg/L** RPD Limit **15**
SampID: 23070389-005CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		**0.00837**	0.0100	0	83.7	0.008104	3.29	08/03/2023

Batch 210306 **SampType:** MBLK Units **mg/L**
SampID: MBLK-210306

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/04/2023

Batch 210306 **SampType:** LCS Units **mg/L**
SampID: LCS-210306

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00454**	0.0050	0	90.9	85	115	08/04/2023

Batch 211189 **SampType:** MBLK Units **mg/L**
SampID: MBLK-211189

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/25/2023
Mercury		0.00020		**< 0.00020**	0.0001	0	0	-100	100	08/23/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070389
Client Project: NEW-23Q3
Report Date: 09-Nov-23

SW-846 7470A (TOTAL)

Batch 211189 **SampType:** LCS Units **mg/L**
SampID: LCS-211189

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		**0.00505**	0.0050	0	100.9	85	115	08/23/2023

Teklab, Inc.
Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll
Client Project: NEW-23Q3

Work Order: 23070389
Report Date: 09-Nov-23

Carrier: Skylar Mathis

Received By: ANC

Completed by: Amber Dilallo
On: 02-Aug-23

Reviewed by: Ellie Hopkins
On: 02-Aug-23

Pages to follow: Chain of custody 26 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 3.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719/79929. - TWM/CET/acolin - 7/25/2023 10:12:23 AM
Additional HNO3 (90404) was needed in XPWO1 upon arrival at the laboratory. - acolin - 7/25/2023 10:12:26 AM
Additional HNO3 (90404) was needed in APWO2, G232 upon arrival at the laboratory. - acolin - 7/26/2023 1:35:53 PM
Additional HNO3 (90404) was needed in G225, additional H2SO4 (90128) was needed in G225, and additional NaOH (81662) was needed in G217S, G225, R2170, A213DUP upon arrival at the laboratory. - acolin - 7/27/2023 9:04:36 AM
Samples collected on 7/26/23 were delivered to the laboratory on 7/26/23 at 1805 (on ice - 8.4C - LTG#5). pH strip #90719/79929 - ANC/ERH 7/27/23
G141 was filtered and preserved with nitric acid (90404) for the dissolved parameters upon arrival at the laboratory. - TM/ehopkins - 7/27/2023 9:36:45 AM
L1R was preserved with HNO3 (90404) upon arrival at the laboratory. Sample did not reach the desired pH range. G104, G106, G1139, R219, G104DUP were preserved with NaOH (81662) upon arrival at the laboratory. - MP/acolin - 7/28/2023 9:50:16 AM
Samples collected on 7/31/23 were delivered to the laboratory on 8/01/23 at 805 (on ice - 5.8C - LTG#1). pH strip #90719 - CET/ERH 7/27/23
Samples collected on 8/01/23 were delivered to the laboratory on 8/02/23 at 1000 (on ice - 3.4C - LTG#1). pH strip #90719 - CET/ERH 7/27/23
Samples collected on 8/16/23 were delivered to the laboratory on 8/16/23 at 1529 (on ice - 5.4C - LTG#5). pH strip #90719/79929 - CET/ERH 7/27/23
pH strip #90719. - amberdilallo - 8/17/2023 3:34:30 PM
Samples collected on 8/17/23 were delivered to the laboratory on 8/17/23 at 1400 (on ice - 1.2C - LTG#1). pH strip #90719/79929 - AMD/ERH 8/17/23

23070389

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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0											✓						23070389-001
2	A213						5	2				1						✓						002
3	A214						5	2	1	1		1						✓						003
4	A215						5	2	1	1		1						✓						004
5	APW02			7-25-23	1145		6	2	2	2						✓				✓	✓	✓		005
6	APW03						1									✓				✓	✓	✓		006
7	APW04															✓				✓	✓	✓		007
8	APW05			7-24-23	1352											✓				✓		✓		008
9	APW05S			7-25-23	1253											✓				✓		✓		009
10	APW06			7-25-23	1222											✓				✓		✓		010
11	APW07			7-25-23	1010											✓				✓		✓		011
12	APW08															✓				✓		✓		012
13	APW09															✓				✓		✓		013
14	APW10															✓				✓		✓		014
15	APW11			7-24-23	1453											✓				✓		✓		015
16	APW12			7-24-23	1523		6	2	2	2						✓				✓		✓		016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q3 Rev 0	J. Colp	7-24-23	1700*	Sayler Matthis	7/24/23	1700		Y	N	
	Sayler Matthis	7/25/23	0842	Allison Cole	7/25/23	840	3.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp

DATE Signed (MM/DD/YY): 7-24-23

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

*Initial relinquished time per Justin Colp.
EAH 9/28/23

LTG
PM 7/27/23 CRS 7/25/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 7 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

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	Y/N	Analysis Test: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S						0													✓					23070389-097
2	R216						0													✓					098
3	R217D						6	2	1	2		1						✓	✓						099
4	R219						5	2	1	1		1							✓						100
5	SG02						0										✓				✓				101
6	XPW01			7-24-23	1230		6	2	2	2							✓				✓		✓		102
7	XPW02			7-24-23	1130		6	2	2	2							✓				✓		✓		103
8	XPW03						6	2	2	2							✓				✓		✓		104
9	XPW04			7-24-23	1300		6	2	2	2							✓				✓		✓		105
10	XSG01						0										✓				✓				106
11	Field Blank						8	2	3	2		1					✓	✓	✓	✓	✓	✓	✓		107
12	APW02 Duplicate						6	2	2	2							✓				✓	✓	✓		108
13	A213 Duplicate						5	2	1	1		1							✓						109
14	G104 Duplicate						5	2	1	1		1								✓					110
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)
NEW-23Q3 Rev 0	J. Colp	7-24-23	1700*	[illegible]	7/24/23	1700				
	[illegible]	7/25/23	0840	Allison Colp	7/25/23	840	3.8	Y		

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-24-23

*Initial relinquished time per Justin Colp.
EAH 9/28/23

PW90719-GR6.1 7-25-23.
Added HNO3(pH<2) to both 250ml from XPW01.
GR 7-25-23

23070389

CHAIN-OF-CUSTODY / Analytical Request Document

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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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0												✓					23070389-001
2	A213						5	2	1	1		1						✓						002
3	A214						5	2	1	1		1						✓						003
4	A215						5	2	1	1		1						✓						004
5	APW02			7-25-23	1145		6	2	2	2						✓				✓	✓	✓		005
6	APW03															✓				✓	✓	✓		006
7	APW04															✓				✓	✓	✓		007
8	APW05			~~7-25-23~~												✓				✓		✓		008
9	APW05S			7-25-23	1253											✓				✓		✓		009
10	APW06			7-25-23	1222											✓				✓		✓		010
11	APW07			7-25-23	1010											✓				✓		✓		011
12	APW08															✓				✓		✓		012
13	APW09															✓				✓		✓		013
14	APW10															✓				✓		✓		014
15	APW11															✓				✓		✓		015
16	APW12						6	2	2	2						✓				✓		✓		016

ADDED HNO3 TO APW02, G232 90404 TM
HEV 90721 79929

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)
NEW-23Q3 Rev 0	Justin Colp	7-25	1700*	Taylor Matta	7/25	1700*		Y	N	
	Taylor Matta	7/26	0815	Allison Colp	7/26	815				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Justin Colp
SIGNATURE of SAMPLER: Justin Colp
DATE Signed (MM/DD/YY): 7-25-23

*Initial relinquished time per Justin Colp.
EAH 9/28/23

NEW-257-501
23070389

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						6	2	2	2						✓				✓		✓		23070389-017
2	APW14															✓				✓		✓		018
3	APW15															✓				✓		✓		019
4	APW16															✓				✓		✓		020
5	APW17			7-25-23	1036											✓				✓		✓		021
6	APW18			7-25-23	0942		6	2	2	2						✓				✓		✓		022
7	G06D						2	1		1							✓							023
8	G104						5	2	1	1		1							✓					024
9	G104D						2	1		1							✓		✓					025
10	G104S						0												✓					026
11	G105						5	2	1	1		1							✓					027
12	G106						5	2	1	1		1							✓					028
13	G108						2	1		1							✓		✓					029
14	G109						0												✓					030
15	G110						0												✓					031
16	G111						0												✓					032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	[signature]	7/25/23	1700*	5.8
	[signature]	7/26/23	0845	[signature]	7/26	845	1

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: JUSTIN COLP
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-25-23

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

*Initial relinquished time per Justin Colp.
EAH 9/28/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 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

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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141						5	2	1	1		1								✓					23070389-049
2	G201						2	1		1								✓							050
3	G202						2	1		1								✓							051
4	G203						2	1		1								✓							052
5	G208			7-25-23	1453		2	1		1								✓	✓						053
6	G217S						5	2	1	1		1							✓						054
7	G218						0												✓						055
8	G220						2	1		1								✓	✓						056
9	G221						5	2	1	1		1							✓						057
10	G222						2	1		1								✓	✓						058
11	G223						2	1		1								✓	✓						059
12	G224						2	1		1								✓	✓						060
13	G225						5	2	1	1		1							✓						061
14	G230 DRY			7-25-23	DRY		6	2	1	2		1						✓	✓						062
15	G231			7-25-23	1112		6	2	1	2		1						✓	✓						063
16	G232			7-25-23	1151		6	2	1	2		1						✓	✓						064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	Skyler Mabb	7/25	1700*	
	Skyler Mabb	7/26	0815	Allison Cole	7/26	815	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp

DATE Signed (MM/DD/YY): 7-25-23

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

*Initial relinquished time per Justin Colp.
EAH 9/28/23

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:	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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G233			7-25-23	1327		6	2	1	2		1					✓	✓						23070389-065
2	G234			7-25-23	0848		6	2	1	2		1					✓	✓						066
3	G48MG						2	1		1							✓							067
4	L1R						2	1		1							✓		✓					068
5	L201						0												✓					069
6	L202						0												✓					070
7	L203						0												✓					071
8	L204						0												✓					072
9	L205						0												✓					073
10	L301						2	1		1							✓							074
11	M25-1						0												✓					075
12	M25-2						0												✓					076
13	M25-3						0												✓					077
14	M25-4						0												✓					078
15	M25-5						0												✓					079
16	M25-6						0												✓					080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	[signature]	7/25	1700*	
	[signature]	7/26	0815	[signature]	7/26	815	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-25-23

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

*Initial relinquished time per Justin Colp.
EAH 9/28/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S						0													✓					23070389-097
2	R216						0													✓					098
3	R217D						6	2	1	2		1						✓	✓						099
4	R219						5	2	1	1		1							✓						100
5	SG02						0										✓				✓				101
6	XPW01						6	2	2	2							✓				✓		✓		102
7	XPW02						6	2	2	2							✓				✓		✓		103
8	XPW03						6	2	2	2							✓				✓		✓		104
9	XPW04						6	2	2	2							✓				✓		✓		105
10	XSG01						0										✓				✓				106
11	Field Blank						8	2	3	2		1					✓	✓	✓	✓	✓	✓	✓		107
12	APW02 Duplicate			7-25-23	1145		6	2	2	2							✓				✓	✓	✓		108
13	A213 Duplicate						5	2	1	1		1							✓						109
14	G104 Duplicate						5	2	1	1		1								✓					110
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25	1700*	[signature]	7/25	1700*	
	[signature]	7/26	0815	[signature]	7/26	815	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-25-23

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

*Initial relinquished time per Justin Colp.
EAH 9/28/23

NEW-257-501

23070389

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

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 #	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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0													✓					23070389-001
2	A213			7/26/23	1105		5	2	1	1		1							✓						002
3	A214			7/26/23	1148		5	2	1	1		1							✓						003
4	A215 *			7/26/23	1315		5	2	1	1		1							✓						004
5	APW02						6	2	2	2							✓				✓	✓	✓			005
6	APW03																✓				✓	✓	✓			006
7	APW04																✓				✓	✓	✓			007
8	APW05																✓				✓		✓			008
9	APW05S																✓				✓		✓			009
10	APW06																✓				✓		✓			010
11	APW07																✓				✓		✓			011
12	APW08																✓				✓		✓			012
13	APW09																✓				✓		✓			013
14	APW10																✓				✓		✓			014
15	APW11																✓				✓		✓			015
16	APW12						6	2	2	2							✓				✓		✓			016

PH 9079/79929
Added HNO3 to 6225 (90404)
H2SO4(90128) to 6225
Added NaOH(81402) to 6217S, 6225, 62170, 62173 dup
AC 7/27

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)
NEW-23Q3 Rev 0	Tracy Darnell	7/26/23	1805		7/26/23	1805	8.4	Y	N	
							2.35			

* Well went Dry during reads

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Darnell

SIGNATURE of SAMPLER: Tracy Darnell DATE Signed (MM/DD/YY): 7/26/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G112						0													✓					23070389-033
2	G113						0													✓					034
3	G114						2	1		1								✓		✓					035
4	G114D						2	1		1								✓							036
5	G115						0													✓					037
6	G116						5	2	1	1		1								✓		✓			038
7	G117						0													✓					039
8	G118						2	1		1								✓		✓					040
9	G119						0													✓					041
10	G120						0													✓					042
11	G125			7/26/23	1338		5	2	1	1		1								✓					043
12	G128			7/26/23	1120		6	2	1	2		1						✓		✓					044
13	G130						6	2	1	2		1						✓		✓					045
14	G133						6	2	1	2		1						✓		✓					046
15	G136						5	2	1	1		1								✓					047
16	G139						5	2	1	1		1								✓					048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	Isaac Carroll	7/26/23	1805	Amber Quall	7/26/23	1805	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Isaac Carroll

SIGNATURE of SAMPLER: Isaac Carroll DATE Signed (MM/DD/YY): 7/26/23

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

23070389

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141 ☆			7-26-23	1402		5	2	1	1		1							✓					23070389-049
2	G201						2	1		1							✓							050
3	G202						2	1		1							✓							051
4	G203						2	1		1							✓							052
5	G208						2	1		1							✓	✓						053
6	G217S			7-26-23	1322		5	2	1	1		1						✓						054
7	G218						0											✓						055
8	G220			7-26-23	0751		2	1		1							✓	✓						056
9	G221			7-26-23	1112		5	2	1	1		1						✓						057
10	G222			7-26-23	1143		2	1		1							✓	✓						058
11	G223				1027		2	1		1							✓	✓						059
12	G224				1236		2	1		1							✓	✓						060
13	G225			7-26-23	1434		5	2	1	1		1						✓						061
14	G230						6	2	1	2		1					✓	✓						062
15	G231						6	2	1	2		1					✓	✓						063
16	G232						6	2	1	2		1					✓	✓						064

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
NEW-23Q3 Rev 0	Jenny Carroll	7/26/23	1805	Jenna Dillon	7/26/23	1805	

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:	Justin Cobb					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-26-23				

☆ = Filter in lab

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
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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S						0													✓					23070389-097
2	R216						0													✓					098
3	R217D			7-26-23	1249		6	2	1	2		1						✓	✓						099
4	R219						5	2	1	1		1							✓						100
5	SG02						0										✓				✓				101
6	XPW01						6	2	2	2							✓				✓		✓		102
7	XPW02						6	2	2	2							✓				✓		✓		103
8	XPW03			7/26/23	1433		6	2	2	2							✓				✓		✓		104
9	XPW04						6	2	2	2							✓				✓		✓		105
10	XSG01						0										✓				✓				106
11	Field Blank						8	2	3	2		1					✓	✓	✓	✓	✓	✓	✓		107
12	APW02 Duplicate						6	2	2	2							✓				✓	✓	✓		108
13	A213 Duplicate						5	2	1	1		1							✓						109
14	G104 Duplicate						5	2	1	1		1								✓					110
15																									
16																									

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
NEW-23Q3 Rev 0	Stacy Lazdi	7/26/23	1805	Jason Stuckey	7/26/23	1805	

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:	Justin Cole					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-26-23				

23070389

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						6	2	2	2							✓				✓		✓						23070389-017
2	APW14																✓				✓		✓						018
3	APW15																✓				✓		✓						019
4	APW16																✓				✓		✓						020
5	APW17																✓				✓		✓						021
6	APW18						6	2	2	2							✓				✓		✓						022
7	G06D						2	1		1								✓											023
8	G104			7-27-23	0907		5	2	1		1									✓									024
9	G104D						2	1		1								✓		✓									025
10	G104S						0													✓									026
11	G105						5	2	1	1		1								✓									027
12	G106			7-27-23	0814		5	2	1	1		1								✓									028
13	G108						2	1		1								✓		✓									029
14	G109						0													✓									030
15	G110						0													✓									031
16	G111						0													✓									032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-27	1635	[signature]	7/27	1635	0.8
							#5

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-27-23

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

Desired ph not reached LIR
Ph checked 79929, 90719
ph added NaOH G104, G106, G1139, R219, G104dup Phacided HNO3 LIR - MP 7/28

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 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	

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 ↓: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G112						0												✓					23070389-033
2	G113						0												✓					034
3	G114						2	1		1							✓		✓					035
4	G114D						2	1		1							✓							036
5	G115						0												✓					037
6	G116						5	2	1	1		1							✓		✓			038
7	G117						0												✓					039
8	G118			7-27-23	0724		2	1		1							✓		✓					040
9	G119						0												✓					041
10	G120						0												✓					042
11	G125						5	2	1	1		1							✓					043
12	G128						6	2	1	2		1					✓		✓					044
13	G130						6	2	1	2		1					✓		✓					045
14	G133						6	2	1	2		1					✓		✓					046
15	G136						5	2	1	1		1							✓					047
16	G139			7-27-23	1258		5	2	1	1		1							✓					048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cob	7-27	1635	Allison Cole	7/27	1635	

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:	Justin Cob					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-27-23				

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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141						5	2	1	1		1								✓					23070389-049
2	G201			7/07/23	0958		2	1		1								✓							050
3	G202						2	1		1								✓							051
4	G203						2	1		1								✓							052
5	G208						2	1		1								✓	✓						053
6	G217S						5	2	1	1		1							✓						054
7	G218						0												✓						055
8	G220						2	1		1								✓	✓						056
9	G221						5	2	1	1		1							✓						057
10	G222						2	1		1								✓	✓						058
11	G223						2	1		1								✓	✓						059
12	G224						2	1		1								✓	✓						060
13	G225						5	2	1	1		1							✓						061
14	G230						6	2	1	2		1						✓	✓						062
15	G231						6	2	1	2		1						✓	✓						063
16	G232						6	2	1	2		1						✓	✓						064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-27	1635	Allison Colp	7/27	1035	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp DATE Signed (MM/DD/YY): 7-27-23

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.

2307038 9 NEW-053-501

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No / Lab I.D.
1	G233						6	2	1	2		1						✓	✓						23070389-065
2	G234						6	2	1	2		1						✓	✓						066
3	G48MG			7-27-23	10:03		2	1		1								✓							067
4	L1R			7-27-23	12:30		2	1		1								✓		✓					068
5	L201						0													✓					069
6	L202						0													✓					070
7	L203						0													✓					071
8	L204						0													✓					072
9	L205						0													✓					073
10	L301						2	1		1								✓							074
11	M25-1						0													✓					075
12	M25-2						0													✓					076
13	M25-3						0													✓					077
14	M25-4						0													✓					078
15	M25-5						0													✓					079
16	M25-6						0													✓					080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-27	1635	William Colp	7/27	1635	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-27-23

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.

Page: 6 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

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	M25-7						0													✓					23070389-081
2	M26-1						0													✓					082
3	M26-2						0													✓					083
4	M26-3						0													✓					084
5	M26-4						0													✓					085
6	M26-5						0													✓					086
7	M26-6						0													✓					087
8	M26-7						0													✓					088
9	MW31S						0													✓					089
10	MW33S						0													✓					090
11	MW34D			7-27-23	10:28		2	1		1								✓							091
12	MW35D			7-27-23	9:19		2	1		1								✓							092
13	MW35S						0													✓					093
14	MW36S			7-27-23	10:58		0													✓					094
15	MW43D			~~7-27-23~~	~~14:33~~ BDB		2	1		1								✓							095
16	MW46D DRY			7-27-23	DRY		2	1		1								✓							096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cob	7-27	1635		7/27	1035	

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:	Justin Cob					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-27-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S						0													✓					23070389-097
2	R216						0													✓					098
3	R217D						6	2	1	2		1						✓	✓						099
4	R219			7-27-23	1210		5	2	1	1		1							✓						100
5	SG02						0										✓				✓				101
6	XPW01						6	2	2	2							✓				✓		✓		102
7	XPW02						6	2	2	2							✓				✓		✓		103
8	XPW03						6	2	2	2							✓				✓		✓		104
9	XPW04						6	2	2	2							✓				✓		✓		105
10	XSG01						8										✓				✓				106
11	Field Blank						8	2	3	2		1					✓	✓	✓	✓	✓	✓	✓		107
12	APW02 Duplicate						6	2	2	2							✓				✓	✓	✓		108
13	A213 Duplicate						5	2	1	1		1							✓						109
14	G104 Duplicate			7-27-23	0907		5	2	1	1		1								✓					110
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cobb	7-27	1635	Allison Colin	7/27	1635	

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:	Justin Cobb					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-27-23				

23071389

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

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 #	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	Y/N	Analysis Test: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0												✓						23071389-001
2	A213						5	2	1	1		1							✓						002
3	A214						5	2	1	1		1							✓						003
4	A215						5	2	1	1		1							✓						004
5	APW02						6	2	2	2							✓				✓	✓	✓		005
6	APW03			7-31-23	1347												✓				✓	✓	✓		006
7	APW04			7-31-23	1153												✓				✓	✓	✓		007
8	APW05																✓				✓		✓		008
9	APW05S																✓				✓		✓		009
10	APW06																✓				✓		✓		010
11	APW07																✓				✓		✓		011
12	APW08			7-31-23	1509												✓				✓		✓		012
13	APW09			7-31-23	1332												✓				✓		✓		013
14	APW10			7-31-23	1126												✓				✓		✓		014
15	APW11						↓	↓	↓	↓							✓				✓		✓		015
16	APW12						6	2	2	2							✓				✓		✓		016

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)
NEW-23Q3 Rev 0	J Colp	7-31	1715	Jessica Carroll	7/31/23	1715		Y	N	
	Jessica Carroll	8/1/23	0805	Omar Duarte	8/1/23	0805	5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Justin Colp
SIGNATURE of SAMPLER: Justin Colp
DATE Signed (MM/DD/YY): 7-31-23

PW07:9. Added HNO3 LOT #1 added to total and dissolved from APW-13. CPET 8-1-23.

NEW-257-503

23070389

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 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

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 #	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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13			7-31-23	1214		6	2	2	2						✓				✓		✓		23070389-017
2	APW14			7-31-23	1233											✓				✓		✓		018
3	APW15															✓				✓		✓		019
4	APW16			7-31-23	1557											✓				✓		✓		020
5	APW17															✓				✓		✓		021
6	APW18						6	2	2	2						✓				✓		✓		022
7	G06D						2	1		1							✓							023
8	G104						5	2	1	1		1							✓					024
9	G104D						2	1		1							✓		✓					025
10	G104S						0												✓					026
11	G105						5	2	1	1		1							✓					027
12	G106						5	2	1	1		1							✓					028
13	G108						2	1		1							✓		✓					029
14	G109						0												✓					030
15	G110						0												✓					031
16	G111						0												✓					032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Coy	7-31	1715	Jeremy Carroll	7/31/23	1715	
	Jeremy Carroll	8/1/23	805	Jason Duell	8/1/23	0805	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Coy

SIGNATURE of SAMPLER: Justin Coy DATE Signed (MM/DD/YY): 7-31-23

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

NEW-257-501 2307038?

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						6	2	2	2							✓				✓		✓		23070389-017
2	APW14						1	1	1	1							✓				✓		✓		018
3	APW15			8-1-23	0839		1	1	1	1							✓				✓		✓		019
4	APW16						1	1	1	1							✓				✓		✓		020
5	APW17						↓	↓	↓	↓							✓				✓		✓		021
6	APW18						6	2	2	2							✓				✓		✓		022
7	G06D			8-1-23	DRY		2	1		1								✓							023
8	G104						5	2	1	1		1								✓					024
9	G104D Went Dry			8-1-23	1131		2	1		1								✓		✓					025
10	G104S						0													✓					026
11	G105			8-1-23	DRY		5	2	1	1		1								✓					027
12	G106						5	2	1	1		1								✓					028
13	G108 Redundant			8-1-23	N/A		2	1		1								✓		✓					029
14	G109						0													✓					030
15	G110						0													✓					031
16	G111						0													✓					032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Gip	8-2	1000	Allison Cahn	8/2	10:00	
							3.4

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:	Justin Gip					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-1-23				

G104D HNO3 container empty. 8/2/23 LTL. 1 ICR
Split for Metals analysis. Sent to 6116/6130 and 1132 (Ref. 8-7-23) PM 0719/7929. Alles Nash (81662)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G112						0													✓					23070389-033
2	G113						0													✓					034
3	G114			8-1-23	1214		2	1		1								✓		✓					035
4	G114D			8-1-23	1155		2	1		1								✓							036
5	G115						0													✓					037
6	G116			8-1-23	1506		5	2	1	1		1								✓		✓			038
7	G117						0													✓					039
8	G118						2	1		1								✓		✓					040
9	G119						0													✓					041
10	G120						0													✓					042
11	G125						5	2	1	1		1								✓					043
12	G128						6	2	1	2		1						✓		✓					044
13	G130			8-1-23	1013		6	2	1	2		1						✓		✓					045
14	G133			8-1-23	0945		6	2	1	2		1						✓		✓					046
15	G136			8-1-23	1047		5	2	1	1		1								✓					047
16	G139						5	2	1	1		1								✓					048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	8-2	1000	Allison Colp	8/2	10:00	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Colp					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-1-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141						5	2	1	1		1								✓									23070389-049
2	G201						2	1		1								✓											050
3	G202			8-1-23	ORY		2	1		1								✓											051
4	G203			8-1-23	1316		2	1		1								✓											052
5	G208						2	1		1								✓	✓										053
6	G217S						5	2	1	1		1							✓										054
7	G218						0												✓										055
8	G220						2	1		1								✓	✓										056
9	G221						5	2	1	1		1							✓										057
10	G222						2	1		1								✓	✓										058
11	G223						2	1		1								✓	✓										059
12	G224						2	1		1								✓	✓										060
13	G225						5	2	1	1		1							✓										061
14	G230						6	2	1	2		1						✓	✓										062
15	G231						6	2	1	2		1						✓	✓										063
16	G232						6	2	1	2		1						✓	✓										064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cop	8-2	1000	Allison Colin	8/2	10:00	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cop

SIGNATURE of SAMPLER: Justin Cop

DATE Signed (MM/DD/YY): 8-1-23

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.

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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G233						6	2	1	2		1						✓	✓						23070389-065
2	G234						6	2	1	2		1						✓	✓						066
3	G48MG						2	1		1								✓							067
4	L1R						2	1		1								✓		✓					068
5	L201						0													✓					069
6	L202						0													✓					070
7	L203						0													✓					071
8	L204						0													✓					072
9	L205						0													✓					073
10	L301 illegible			8-1-23	N/A		2	1		1								✓							074
11	M25-1						0													✓					075
12	M25-2						0													✓					076
13	M25-3						0													✓					077
14	M25-4						0													✓					078
15	M25-5						0													✓					079
16	M25-6						0													✓					080

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Culp	8-2	1000	Allison Colin	8/2	10:00	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Culp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-1-23

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.

Page: 7 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

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 ↓ NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S						0												✓					23070389-097
2	R216						0												✓					098
3	R217D						6	2	1	2		1					✓	✓						099
4	R219						5	2	1	1		1						✓						100
5	SG02						0									✓				✓				101
6	XPW01						6	2	2	2						✓				✓		✓		102
7	XPW02						6	2	2	2						✓				✓		✓		103
8	XPW03						6	2	2	2						✓				✓		✓		104
9	XPW04						6	2	2	2						✓				✓		✓		105
10	XSG01						0									✓				✓				106
11	Field Blank			8-1-23	1509		8	2	3	2		1				✓	✓	✓	✓	✓	✓	✓		107
12	APW02 Duplicate						6	2	2	2						✓				✓	✓	✓		108
13	A213 Duplicate						5	2	1	1		1						✓						109
14	G104 Duplicate						5	2	1	1		1							✓					110
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Gulp	8-2	1000	Allison Colin	8/2	10:00	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Gulp

SIGNATURE of SAMPLER: Justin Gulp DATE Signed (MM/DD/YY): 8-1-23

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

WO# 23070389

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:	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

Requested Analysis Filtered (Y/N)

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A214			8-16-23	1046		5	2	1	1		1							X							23070389-111
2	G116				1322		5	2	1	1		1							X			X				-112
3	G231				1131 x		6	2	1	2		1						X	X							-113
4	G232				~~1207~~ 1212		6	2	1	2		1						X	X							-114
5	MW35D DRY				DRY		2	1		1								X								-115
6	~~matrix~~ water																									
7																										
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	8-16	1529	Maureen Peretin	8/16/23	1529	#5
Resampling, only.							5.4 Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp

DATE Signed (MM/DD/YY): 8-16-23

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

pH 7 9179929, added TB ~~from 8/16/23~~ HNO3 (92447) to dissolved from 8-17-23.

WO# 23070389

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:	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

Requested Analysis Filtered (Y/N)

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW02			8-17-23	1123		6	2	2	2																		23070389-116
2	APW02 Duplicate			8-17-23	1123		6	2	2	2																		-117
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												PH ✓ 90719 SM 8/17/23
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q3 Rev 0	J. Colp	8-17	1400	Omar Dallaire	8/17/23	1400
Resampling, only.						

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: Justin Colp

DATE Signed (MM/DD/YY): 8-17-23

LTG1

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

September 19, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NEW-23Q3 **WorkOrder:** 23070390

Dear Eric Bauer:

TEKLAB, INC received 26 samples on 8/17/2023 2:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	31
Dates Report	32
Receiving Check List	34
Chain of Custody	Appended

Definitions

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

Client: Ramboll
Client Project: NEW-23Q3

Work Order: 23070390
Report Date: 19-Sep-23

Cooler Receipt Temp: 3.8 °C

An employee of Teklab, Inc. collected the sample(s).

APW02 (and its field duplicate) required resampling due to field meter errors. The resamples will be included in the final report(s). EAH 8/18/23

Ra226/228 were performed by Eurofins St. Louis. See attached report for results and QC.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-002
Client Sample ID: APW03
Matrix: GROUNDWATER
Collection Date: 07/31/2023 13:47

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:09	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-003
Client Sample ID: APW04
Matrix: GROUNDWATER
Collection Date: 07/31/2023 11:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:09	R336425

Teklab, Inc.
Environmental Laboratory

Laboratory Results

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-004
Client Sample ID: APW05
Matrix: GROUNDWATER
Collection Date: 07/24/2023 13:52

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-005
Client Sample ID: APW05S
Matrix: GROUNDWATER
Collection Date: 07/25/2023 12:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Teklab, Inc.
Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Lab ID: 23070390-006 **Client Sample ID:** APW06

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 12:22

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-007
Client Sample ID: APW07
Matrix: GROUNDWATER
Collection Date: 07/25/2023 10:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-008
Client Sample ID: APW08
Matrix: GROUNDWATER
Collection Date: 07/31/2023 15:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-009
Client Sample ID: APW09
Matrix: GROUNDWATER
Collection Date: 07/31/2023 13:32

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-010
Client Sample ID: APW10
Matrix: GROUNDWATER
Collection Date: 07/31/2023 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:11	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-011
Client Sample ID: APW11
Matrix: GROUNDWATER
Collection Date: 07/24/2023 14:53

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:12	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-012
Client Sample ID: APW12
Matrix: GROUNDWATER
Collection Date: 07/24/2023 15:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:15	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-013
Client Sample ID: APW13
Matrix: GROUNDWATER
Collection Date: 07/31/2023 12:14

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:15	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-014
Client Sample ID: APW14
Matrix: GROUNDWATER
Collection Date: 07/31/2023 12:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Teklab, Inc.
Environmental Laboratory

Laboratory Results

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-015
Client Sample ID: APW15
Matrix: GROUNDWATER
Collection Date: 08/01/2023 8:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-016
Client Sample ID: APW16
Matrix: GROUNDWATER
Collection Date: 07/31/2023 15:37

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Lab ID: 23070390-017 **Client Sample ID:** APW17

Matrix: GROUNDWATER **Collection Date:** 07/25/2023 10:36

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Teklab, Inc.
Environmental Laboratory

Laboratory Results

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-018
Client Sample ID: APW18
Matrix: GROUNDWATER
Collection Date: 07/25/2023 9:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Lab ID: 23070390-019 **Client Sample ID:** XPW01

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Lab ID: 23070390-020 **Client Sample ID:** XPW02

Matrix: GROUNDWATER **Collection Date:** 07/24/2023 11:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:16	R336425

Teklab, Inc.
Environmental Laboratory

Laboratory Results

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-021
Client Sample ID: XPW03
Matrix: GROUNDWATER
Collection Date: 07/26/2023 14:33

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:06	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-022
Client Sample ID: XPW04
Matrix: GROUNDWATER
Collection Date: 07/24/2023 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:07	R336425

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23
Lab ID: 23070390-023
Client Sample ID: Field Blank
Matrix: GROUNDWATER
Collection Date: 08/01/2023 15:09

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	08/18/2023 13:07	R336425

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Lab ID: 23070390-025 **Client Sample ID:** APW02 (resample)

Matrix: GROUNDWATER **Collection Date:** 08/17/2023 11:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	09/07/2023 11:36	R336425

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Lab ID: 23070390-026 **Client Sample ID:** APW02 Duplicate (resample)

Matrix: GROUNDWATER **Collection Date:** 08/17/2023 11:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS									
Subcontracted Analysis	*	0	0		**See Attached**		1	09/07/2023 11:36	R336425

Sample Summary

Client: Ramboll
Client Project: NEW-23Q3

Work Order: 23070390
Report Date: 19-Sep-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23070390-001	APW02	Groundwater	1	07/25/2023 11:45
23070390-002	APW03	Groundwater	1	07/31/2023 13:47
23070390-003	APW04	Groundwater	1	07/31/2023 11:53
23070390-004	APW05	Groundwater	1	07/24/2023 13:52
23070390-005	APW05S	Groundwater	1	07/25/2023 12:53
23070390-006	APW06	Groundwater	1	07/25/2023 12:22
23070390-007	APW07	Groundwater	1	07/25/2023 10:10
23070390-008	APW08	Groundwater	1	07/31/2023 15:09
23070390-009	APW09	Groundwater	1	07/31/2023 13:32
23070390-010	APW10	Groundwater	1	07/31/2023 11:26
23070390-011	APW11	Groundwater	1	07/24/2023 14:53
23070390-012	APW12	Groundwater	1	07/24/2023 15:23
23070390-013	APW13	Groundwater	1	07/31/2023 12:14
23070390-014	APW14	Groundwater	1	07/31/2023 12:33
23070390-015	APW15	Groundwater	1	08/01/2023 8:39
23070390-016	APW16	Groundwater	1	07/31/2023 15:37
23070390-017	APW17	Groundwater	1	07/25/2023 10:36
23070390-018	APW18	Groundwater	1	07/25/2023 9:42
23070390-019	XPW01	Groundwater	1	07/24/2023 12:30
23070390-020	XPW02	Groundwater	1	07/24/2023 11:30
23070390-021	XPW03	Groundwater	1	07/26/2023 14:33
23070390-022	XPW04	Groundwater	1	07/24/2023 13:00
23070390-023	Field Blank	Groundwater	1	08/01/2023 15:09
23070390-024	APW02 Duplicate	Groundwater	1	07/25/2023 11:45
23070390-025	APW02 (resample)	Groundwater	1	08/17/2023 11:23
23070390-026	APW02 Duplicate (resample)	Groundwater	1	08/17/2023 11:23

Dates Report

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Sample ID	Client Sample ID / Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23070390-002A	APW03	07/31/2023 13:47	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:09
23070390-003A	APW04	07/31/2023 11:53	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:09
23070390-004A	APW05	07/24/2023 13:52	07/25/2023 8:40		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-005A	APW05S	07/25/2023 12:53	07/26/2023 8:15		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-006A	APW06	07/25/2023 12:22	07/26/2023 8:15		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-007A	APW07	07/25/2023 10:10	07/26/2023 8:15		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-008A	APW08	07/31/2023 15:09	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-009A	APW09	07/31/2023 13:32	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-010A	APW10	07/31/2023 11:26	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:11
23070390-011A	APW11	07/24/2023 14:53	07/25/2023 8:40		
	See Attached for Subcontracting Analysis				08/18/2023 13:12
23070390-012A	APW12	07/24/2023 15:23	07/25/2023 8:40		
	See Attached for Subcontracting Analysis				08/18/2023 13:15
23070390-013A	APW13	07/31/2023 12:14	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:15
23070390-014A	APW14	07/31/2023 12:33	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-015A	APW15	08/01/2023 8:39	08/02/2023 10:00		
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-016A	APW16	07/31/2023 15:37	08/01/2023 8:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-017A	APW17	07/25/2023 10:36	07/26/2023 8:15		
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-018A	APW18	07/25/2023 9:42	07/26/2023 8:15		
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-019A	XPW01	07/24/2023 12:30	07/25/2023 8:40		

Dates Report

Client: Ramboll **Work Order:** 23070390

Client Project: NEW-23Q3 **Report Date:** 19-Sep-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-020A	XPW02	07/24/2023 11:30	07/25/2023 8:40		
	See Attached for Subcontracting Analysis				08/18/2023 13:16
23070390-021A	XPW03	07/26/2023 14:33	07/26/2023 18:05		
	See Attached for Subcontracting Analysis				08/18/2023 13:06
23070390-022A	XPW04	07/24/2023 13:00	07/25/2023 8:40		
	See Attached for Subcontracting Analysis				08/18/2023 13:07
23070390-023A	Field Blank	08/01/2023 15:09	08/02/2023 10:00		
	See Attached for Subcontracting Analysis				08/18/2023 13:07
23070390-025A	APW02 (resample)	08/17/2023 11:23	08/17/2023 14:00		
	See Attached for Subcontracting Analysis				09/07/2023 11:36
23070390-026A	APW02 Duplicate (resample)	08/17/2023 11:23	08/17/2023 14:00		
	See Attached for Subcontracting Analysis				09/07/2023 11:36

Teklab, Inc. Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23070390
Client Project: NEW-23Q3
Report Date: 19-Sep-23

Carrier: Skylar Mathis
Received By: ANC

Completed by: Amber Dilallo
On: 02-Aug-23

Reviewed by: Ellie Hopkins
On: 02-Aug-23

Pages to follow: Chain of custody 25 Extra pages included 37

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	3.8	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - CET/acolin - 7/25/2023 10:35:24 AM

Additional HNO3 (90404) was needed in APW12, XPWO1, & XPWO4 upon arrival at the laboratory. XPWO1 did not reach the desired pH range. - CET/acolin - 7/25/2023 10:35:27 AM

Additional HNO3(90404) was needed in XPWO3 upon arrival at the laboratory. - acolin - 7/27/2023 8:31:58 AM

Samples collected on 7/26/23 were delivered to the laboratory on 7/26/23 at 1805 (on ice - 8.4C - LTG#5). pH strip #90719. - ANC/ERH 7/27/23

Samples collected on 7/31/23 were delivered to the laboratory on 7/31/23 at 0805 (on ice - 5.8C - LTG#1). pH strip #90719. - CET/ERH 7/27/23

Samples collected on 8/1/23 were delivered to the laboratory on 8/2/23 at 1000 (on ice - 3.4C - LTG#1). pH strip #90719. - CET/ERH 7/27/23

Additional Nitric Acid (92447) was needed in APW02 and APW02 Duplicateupon arrival at the laboratory. - amberdilallo - 8/17/2023 3:35:43 PM

pH strip #90719. - amberdilallo - 8/17/2023 3:36:10 PM

Samples collected on 8/17/23 were delivered to the laboratory on 8/17/23 at 1400 (on ice - 1.2C - LTG#1). pH strip #90719. - AMD/ERH 7/27/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

23070390 NEW-257-501

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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																		✓								N/A
2	A213																	✓									↓
3	A214																	✓									
4	A215																	✓									
5	APW02							2			2					✓				✓	✓	✓					23070390-001
6	APW03							↓			↓					✓				✓	✓	✓					002
7	APW04															✓				✓	✓	✓					003
8	APW05				7-24-23	1352										✓				✓		✓					004
9	APW05S															✓				✓		✓					005
10	APW06															✓				✓		✓					006
11	APW07															✓				✓		✓					007
12	APW08															✓				✓		✓					008
13	APW09															✓				✓		✓					009
14	APW10															✓				✓		✓					010
15	APW11				7-24-23	1453										✓				✓		✓					011
16	APW12				7-24-23	1523		↓			↓					✓				✓		✓					012

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)
NEW-23Q3 Rev 0	J. Colp	7-24-23			7/24/23	1700		Y	N	
Ra226/228 only.		7/25/23	0840		7/25	840	3.8	Y		

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Justin Colp
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 7-24-23

LTGI Pm 7/27/23. 9222 (RA) HM03 +
12.
CRA 7-25-23

23070390

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S																			✓							N/A
2	R216																			✓							
3	R217D																	✓	✓								
4	R219																		✓								
5	SG02																✓				✓						
6	XPW01			7-24-23	1230		2			2							✓				✓		✓				23070390-019
7	XPW02			7-24-23	1130												✓				✓		✓				020
8	XPW03																✓				✓		✓				021
9	XPW04			7-24-23	1300												✓				✓		✓				022
10	XSG01																✓				✓						N/A
11	Field Blank						2			2							✓	✓	✓	✓	✓	✓	✓					023
12	APW02 Duplicate						2			2							✓				✓	✓	✓					024
13	A213 Duplicate																		✓								N/A
14	G104 Duplicate																			✓							N/A
15																											
16																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cole	7-24-23			7/24/23	1700	
		7/25/23	0840		7/25	840	3.8 Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 7-24-23

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

MW-207A pH>2 (ground HNO3) to 01 and 02
04.01 didn't preserve.
GSR 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																			✓					N/A
2	A213																		✓						↓
3	A214																		✓						
4	A215																		✓						
5	APW02			7-25-23	1145		2			2							✓				✓	✓	✓		23072390-001
6	APW03									1							✓				✓	✓	✓		002
7	APW04																✓				✓	✓	✓		003
8	APW05																✓				✓		✓		004
9	APW05S			7-25-23	1353												✓				✓		✓		005
10	APW06			7-25-23	1332												✓				✓		✓		006
11	APW07			7-25-23	1010												✓				✓		✓		007
12	APW08																✓				✓		✓		008
13	APW09																✓				✓		✓		009
14	APW10																✓				✓		✓		010
15	APW11																✓				✓		✓		011
16	APW12						↓			↓							✓				✓		✓		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q3 Rev 0	J. Culp	7-25			7/25	
Ca226/228 only.		7/26	0815		7/26	815

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JUSTIN Culp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-25-23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 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

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 #	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	Y/N	Analysis Test: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						2	1		2							✓				✓		✓		2307390-013
2	APW14							1									✓				✓		✓		014
3	APW15							1									✓				✓		✓		015
4	APW16							1									✓				✓		✓		016
5	APW17			7-25-23	1036												✓				✓		✓		017
6	APW18			7-25-23	0942												✓				✓		✓		018
7	G06D																	✓							N/A
8	G104																			✓					
9	G104D																	✓		✓					
10	G104S																			✓					
11	G105																			✓					
12	G106																			✓					
13	G108																	✓		✓					
14	G109																			✓					
15	G110																			✓					✓
16	G111																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25		Stephen Mudd	7/25		
	Stephen Mudd	7/26	0815	Allison Colp	7/26	815	

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:	Justin Colp					
SIGNATURE of SAMPLER:		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.

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141																			✓					N/A
2	G201																	✓							
3	G202																	✓							
4	G203																	✓							
5	G208			7-25-23	1453													✓	✓						
6	G217S																		✓						
7	G218																		✓						
8	G220																	✓	✓						
9	G221																		✓						
10	G222																	✓	✓						
11	G223																	✓	✓						
12	G224																	✓	✓						
13	G225																		✓						
14	G230 DKY			7-25-23	DKY													✓	✓						
15	G231			7-25-23	1112													✓	✓						
16	G232			7-25-23	1151													✓	✓						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cole	7-25		Skyler Mathis	7/25		
	Skyler Mathis	7/26	0815	Allison Cole	7/26	815	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cole

SIGNATURE of SAMPLER: Justin Cole DATE Signed (MM/DD/YY): 7-25-23

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 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
																	Requested Analysis Filtered (Y/N)										
1	G233				7-25-23	1324												✓	✓							N/A
2	G234				7-25-23	0848												✓	✓							
3	G48MG																	✓								
4	L1R																	✓		✓						
5	L201																			✓						
6	L202																			✓						
7	L203																			✓						
8	L204																			✓						
9	L205																			✓						
10	L301																	✓								
11	M25-1																			✓						
12	M25-2																			✓						
13	M25-3																			✓						
14	M25-4																			✓						
15	M25-5																			✓						
16	M25-6																			✓						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25			7/25		
		7/26	0815		7/26	815	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JUSTIN Colp

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 7-25-23

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.

Page: 7 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S																			✓					N/A
2	R216																			✓					
3	R217D																	✓	✓						
4	R219																		✓						
5	SG02																✓				✓				
6	XPW01							2			2						✓				✓		✓		23070390-019
7	XPW02							↓			↓						✓				✓		✓		020
8	XPW03																✓				✓		✓		021
9	XPW04							✓			✓						✓				✓		✓		022
10	XSG01																✓				✓				N/A
11	Field Blank							2			2						✓	✓	✓	✓	✓	✓	✓		023
12	APW02 Duplicate				7-25-23	1145		2			2						✓				✓	✓	✓		024
13	A213 Duplicate																		✓						N/A
14	G104 Duplicate																			✓					N/A
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-25			7/25		
		7/26			7/26	815	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Justin Colp		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		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.

2307390

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	REGULATORY AGENCY
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	
		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 #:	

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																	✓					N/A
2	A213			7/26/23	1105													✓					↓
3	A214			7/26/23	1145													✓					
4	A215 X			7/26/23	1315													✓					
5	APW02						2			2						✓				✓	✓	✓		2307390-001
6	APW03															✓				✓	✓	✓		002
7	APW04															✓				✓	✓	✓		003
8	APW05															✓				✓		✓		004
9	APW05S															✓				✓		✓		005
10	APW06															✓				✓		✓		006
11	APW07															✓				✓		✓		007
12	APW08															✓				✓		✓		008
13	APW09															✓				✓		✓		009
14	APW10															✓				✓		✓		010
15	APW11															✓				✓		✓		011
16	APW12															✓				✓		✓		012

pH 9074 added HNO3(9040A) to 2/2 XPW03 AC 7/27

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q3 Rev 0	Tracy Carroll	7/26/23	1805	Allison Cohn	7/26	1805	8.4	Y	N	
Ra226/228 only.							LSCF			

* Well went Dry during reads

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:	Tracy Carroll					
SIGNATURE of SAMPLER:	Tracy Carroll	DATE Signed (MM/DD/YY): 7/26/23				

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
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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G112																			✓					N/A
2	G113																			✓					
3	G114																	✓		✓					
4	G114D																	✓							
5	G115																			✓					
6	G116																			✓		✓			
7	G117																			✓					
8	G118																	✓		✓					
9	G119																			✓					
10	G120																			✓					
11	G125			7/26/23	1338															✓					
12	G128			7/26/23	1126													✓		✓					
13	G130																	✓		✓					
14	G133																	✓		✓					
15	G136																			✓					
16	G139																			✓					✓

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	Tracy Carroll	7/26/23	1805	Allison Colin	7/26	1805	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 7/26/23

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.

Page: 4 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141★			7-26-23	1402															✓					N/A
2	G201																	✓							
3	G202																	✓							
4	G203																	✓							
5	G208																	✓	✓						
6	G217S			7-26-23	1372														✓						
7	G218																		✓						
8	G220			7-26-23	0751													✓	✓						
9	G221			7-26-23	1117														✓						
10	G222			7-26-23	1143													✓	✓						
11	G223				1027													✓	✓						
12	G224				1236													✓	✓						
13	G225			7-26-23	1434														✓						
14	G230																	✓	✓						
15	G231																	✓	✓						
16	G232																	✓	✓						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	Mary Carroll	7/26/23	1805	Allison Colin	7/26	1805	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cobb

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-26-23

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

★ = Filter in lab

CHAIN-OF-CUSTODY / Analytical Request Document

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

23070390 NEW-257-501

Page: 7 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S																			✓					N/A
2	R216																			✓					
3	R217D			7-26-23	1249													✓	✓						
4	R219																		✓						
5	SG02																✓				✓				↓
6	XPW01						2			2							✓				✓		✓		23070390-09
7	XPW02						↓			↓							✓				✓		✓		020
8	XPW03			7/26/23	1433												✓				✓		✓		021
9	XPW04						↓			↓							✓				✓		✓		022
10	XSG01																✓				✓				N/A
11	Field Blank						2			2							✓	✓	✓	✓	✓	✓	✓		023
12	APW02 Duplicate						2			2							✓				✓	✓	✓		024
13	A213 Duplicate																		✓						N/A
14	G104 Duplicate																			✓					N/A
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	Mary Carroll	7/26/23	1805	William Colon	7/26	1805	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cox

SIGNATURE of SAMPLER: Justin Cox

DATE Signed (MM/DD/YY): 7-26-23

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.

NEW-257-501

Page: 2 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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						7	X		2							✓				✓		✓		23072390-013
2	APW14							TE									✓				✓		✓		014
3	APW15							4KR									✓				✓		✓		015
4	APW16							7/19/23									✓				✓		✓		016
5	APW17																✓				✓		✓		017
6	APW18						✓			✓							✓				✓		✓		018
7	G06D																	✓							N/A
8	G104			7-27-23	0907															✓					
9	G104D																	✓		✓					
10	G104S																			✓					
11	G105																			✓					
12	G106			7-27-23	0814															✓					
13	G108																	✓		✓					
14	G109																			✓					
15	G110																			✓					↓
16	G111																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-27	1635	[signature]	7/27	1635	0.8
							5

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jason Colp		
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY):	7-27-23

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 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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G112																			✓							N/A
2	G113																			✓							
3	G114																	✓		✓							
4	G114D																	✓									
5	G115																			✓							
6	G116																			✓		✓					
7	G117																			✓							
8	G118			7-27-23	0724													✓		✓							
9	G119																			✓							
10	G120																			✓							
11	G125																			✓							
12	G128																	✓		✓							
13	G130																	✓		✓							
14	G133																	✓		✓							
15	G136																			✓							
16	G139			7-27-23	1258															✓							

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	7-27	1635		7/27	1635	

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Justin Colp		Temp in °C	
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-27-23	Received on Ice (Y/N)	
			Custody Sealed Cooler (Y/N)	
			Samples Intact (Y/N)	

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141			~~7-27-23~~																✓					N/A
2	G201			7-27-23	0958													✓							
3	G202																	✓							
4	G203																	✓							
5	G208																✓	✓							
6	G217S																		✓						
7	G218																		✓						
8	G220																✓	✓							
9	G221																		✓						
10	G222																✓	✓							
11	G223																✓	✓							
12	G224																✓	✓							
13	G225																	✓							
14	G230																✓	✓							
15	G231																✓	✓							
16	G232																✓	✓							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cole	7-27	1635	[signature]	7/27	1635	

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Justin Cole		Temp in °C	
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 7-27-23	Received on Ice (Y/N)	
			Custody Sealed Cooler (Y/N)	
			Samples Intact (Y/N)	

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

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	Analysis Test Y/N	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G233																	✓	✓						N/A
2	G234																	✓	✓						
3	G48MG			7-27-23	10:03													✓							
4	L1R			7-27-23	1230													✓		✓					
5	L201																			✓					
6	L202																			✓					
7	L203																			✓					
8	L204																			✓					
9	L205																			✓					
10	L301																	✓							
11	M25-1																			✓					
12	M25-2																			✓					
13	M25-3																			✓					
14	M25-4																			✓					
15	M25-5																			✓					
16	M25-6																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Gulp	7-27	1635	Allison Cohn	7/27	1635	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Justin Gulp		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 7-27-23				

CHAIN-OF-CUSTODY / Analytical Request Document

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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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	M25-7																			✓					N/A
2	M26-1																			✓					
3	M26-2																			✓					
4	M26-3																			✓					
5	M26-4																			✓					
6	M26-5																			✓					
7	M26-6																			✓					
8	M26-7																			✓					
9	MW31S																			✓					
10	MW33S																			✓					
11	MW34D			7-27-23	18:28													✓							
12	MW35D			7-27-23	9:19													✓							
13	MW35S																			✓					
14	MW36S																			✓					
15	MW43D			7-27-23	10:58													✓							
16	MW46D DRY			7-27-23	DRY													✓							

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
NEW-23Q3 Rev 0	J. Gib	7-27	1635		7/27	1035	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cox

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-27-23

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

23070390

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
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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000						Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S																			✓										N/A
2	R216																			✓										
3	R217D																	✓	✓											
4	R219				7-27-23	1210													✓											
5	SG02																✓				✓									
6	XPW01							2			2						✓				✓		✓							23070390-019
7	XPW02																✓				✓		✓							020
8	XPW03																✓				✓		✓							021
9	XPW04																✓				✓		✓							022
10	XSG01																✓				✓									N/A
11	Field Blank							2			2						✓	✓	✓	✓	✓	✓	✓							023
12	APW02 Duplicate							2			2						✓				✓	✓	✓							024
13	A213 Duplicate																		✓											N/A
14	G104 Duplicate				7-27-23	0907														✓										N/A
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Cobb	7-27	1655	Allison Cobb	7/27	1635	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Cobb

SIGNATURE of SAMPLER: Justin Cobb DATE Signed (MM/DD/YY): 7-27-23

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.

23072390 & NEW-257501

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																			✓					N/A
2	A213																		✓						↓
3	A214																		✓						
4	A215																		✓						
5	APW02						2			2							✓				✓	✓	✓			23072390-001
6	APW03			7-31-23	1347												✓				✓	✓	✓			002
7	APW04			7-31-23	1153												✓				✓	✓	✓			003
8	APW05																✓				✓		✓			004
9	APW05S																✓				✓		✓			005
10	APW06																✓				✓		✓			006
11	APW07																✓				✓		✓			007
12	APW08			7-31-23	1509												✓				✓		✓			008
13	APW09			7-31-23	1332												✓				✓		✓			009
14	APW10			7-31-23	1126												✓				✓		✓			010
15	APW11																✓				✓		✓			011
16	APW12						↓			↓							✓				✓		✓			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q3 Rev 0	J. Colp	7-31	1715	Jenny Cazzell	7/31/23	1715		Y	N	
2nd 2/2 & 2/28 only.	Jenny Cazzell	8/1/23	805	Brian Gilles	8/1/23	0805	5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-31-23

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

PMW0719. added HNO3(90104)JC7Q #1 to 2/2 APW-16. CPET 8-1-23.

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13			7-31-23	1714		2	8		2							✓				✓		✓		23070390-013
2	APW14			7-31-23	1233			TB									✓				✓		✓		014
3	APW15							4									✓				✓		✓		015
4	APW16			7-31-23	1537			7/14/23									✓				✓		✓		016
5	APW17																✓				✓		✓		017
6	APW18						↓			↓							✓				✓		✓		018
7	G06D																	✓							N/A
8	G104																			✓					
9	G104D																	✓		✓					
10	G104S																			✓					
11	G105																			✓					
12	G106																			✓					
13	G108																	✓		✓					
14	G109																			✓					
15	G110																			✓					
16	G111																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
NEW-23Q3 Rev 0	J. Colp	7-31	1715	Tracy Carroll	7/31/23	1715
	Tracy Carroll	8/1/23	805	Simon Dilallo	8/1/23	0805

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7-31-23

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						2	2		2							✓				✓		✓		23072390-013
2	APW14							TR									✓				✓		✓		014
3	APW15			8-1-23	0839			GKR									✓				✓		✓		015
4	APW16							7/26/23									✓				✓		✓		016
5	APW17																✓				✓		✓		017
6	APW18						✓			✓							✓				✓		✓		018
7	G06D			8-1-23	DRY													✓							N/A
8	G104																			✓					
9	G104D went DRY			8-1-23	1131													✓		✓					
10	G104S																			✓					
11	G105			8-1-23	DRY															✓					
12	G106																			✓					
13	G108 Abandoned			8-1-23	N/A													✓		✓					
14	G109																			✓					
15	G110																			✓					
16	G111																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	8-2	1000	Allison Colin	8/2	10:20	3.4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-1-23

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

LTG.1
ICE
added HNO3 (solution) to APW-15, per S-2-23.
PM 9079.

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
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	Analysis Test Y/N	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	Requested Analysis Filtered (Y/N)															Y/N									
1	G112																			✓					N/A
2	G113																			✓					
3	G114			8-1-23	1214													✓		✓					
4	G114D			8-1-23	1155													✓							
5	G115																			✓					
6	G116			8-1-23	1508															✓		✓			
7	G117																			✓					
8	G118																	✓		✓					
9	G119																			✓					
10	G120																			✓					
11	G125																			✓					
12	G128																	✓		✓					
13	G130			8-1-23	1013													✓		✓					
14	G133			8-1-23	0945													✓		✓					
15	G136			8-1-23	1047															✓					
16	G139																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	8-2	1000	Allison Cole	8/2	10:30	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Justin Colp				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	8-1-23		

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.

Page: 4 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	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G141																			✓					N/A
2	G201																	✓							
3	G202			8-1-23	DRY													✓							
4	G203			8-1-23	1316													✓							
5	G208																✓		✓						
6	G217S																		✓						
7	G218																		✓						
8	G220																✓		✓						
9	G221																		✓						
10	G222																✓		✓						
11	G223																✓		✓						
12	G224																✓		✓						
13	G225																		✓						
14	G230																✓		✓						
15	G231																✓		✓						
16	G232																✓		✓						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	8-2	1000	Allison Colen	8/2	10:00	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Colp

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8-1-23

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 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		

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G233																	✓	✓						N/A
2	G234																	✓	✓						
3	G48MG																	✓							
4	L1R																	✓		✓					
5	L201																			✓					
6	L202																			✓					
7	L203																			✓					
8	L204																			✓					
9	L205																			✓					
10	L301 inoperable			8-1-23	N/A													✓							
11	M25-1																			✓					
12	M25-2																			✓					
13	M25-3																			✓					
14	M25-4																			✓					
15	M25-5																			✓					
16	M25-6																			✓					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J. Colp	8-2	1000	Allison Colin	8/2	10:00	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Colp					
SIGNATURE of SAMPLER:	Justin Colp	DATE Signed (MM/DD/YY): 8-1-23				

23070390

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	REGULATORY AGENCY
Address: 13498 E. 900th St	Copy To: Jason Stuckey	Company Name: Vistra Corp	
		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 #	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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW48S																			✓					N/A
2	R216																			✓					
3	R217D																	✓	✓						
4	R219																	✓							
5	SG02																✓				✓				
6	XPW01						2			2							✓				✓		✓		23070390-09
7	XPW02						↓			↓							✓				✓		✓		020
8	XPW03																✓				✓		✓		021
9	XPW04						✓			✓							✓				✓		✓		022
10	XSG01																✓				✓				N/A
11	Field Blank			8-1-23	1509		2			2							✓	✓	✓	✓	✓	✓	✓		023
12	APW02 Duplicate						2			2							✓				✓	✓	✓		024
13	A213 Duplicate																		✓						N/A
14	G104 Duplicate																			✓					N/A
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q3 Rev 0	J-Cole	8-2	1000	Allison Cole	8/2	10:00	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Justin Cole					
SIGNATURE of SAMPLER:	Justin Cole	DATE Signed (MM/DD/YY): 8-1-23				

WO# 23070390

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:	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

Requested Analysis Filtered (Y/N)

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	NEW-SUP-000					Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW02			8-17-23	1123		2			2																		23070390-025
2	APW02 Duplicate			8-17-23	1123		2			2																		-026
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												Added HNO3 (0944) for all samples (SM) 8/17/23
12																												
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q3 Rev 0	J. Colp	8-17	1400	Emily Dellolles	8/17/23	1440	1.2	Y	N	Y
Resampling, only.										

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:	Justin Colp				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-17-23			

LDC (illegible)

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 9/15/2023 5:22:13 PM

JOB DESCRIPTION

Radium-226 and Radium-228
SDG NUMBER 23070390

JOB NUMBER

160-50934-1

Eurofins St. Louis
13715 Rider Trail North
Earth City MO 63045

See page two for job notes and contact information.

my EOL

Eurofins St. Louis

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization



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9/15/2023 5:22:13 PM

Authorized for release by
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

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Case Narrative

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-50934-1
SDG: 23070390

Job ID: 160-50934-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative
160-50934-1

Comments
No additional comments.

Receipt
The samples were received on 8/18/2023 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved. The temperatures of the 4 coolers at receipt time were 6.0º C, 17.6º C, 17.7º C and 17.7º C.

RAD
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Method 904.0: Radium-228
The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences: 23070390-007 (160-50934-7), 23070390-011 (160-50934-11), 23070390-015 (160-50934-15) and 23070390-019 (160-50934-19). Analytical results are reported with the detection limit achieved.

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: 23070390-022 (160-50934-22). Analytical results are reported with the detection limit achieved.

The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 129%: (LCS 160-624957/2-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (63-154%) per method requirements. The LCS is within criteria and no further action is required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Jayna Awalt

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Friday, August 18, 2023 8:00 AM
To: Jayna Awalt
Subject: RE: Teklab WO# 23071340

Categories: Waiting on response

EXTERNAL EMAIL*

A quick follow-up… Once you receive the resample containers for 23070390 and 23071340, please cancel/do not report 23070390-001, 23070390-024, and 23071340-031. The resamples are replacing these. I understand that analyses have already been started and expect to be billed for them despite the cancellation for reporting.

I apologize for the inconvenience that this is causing.

Thanks, again!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
Cell: (618) 791-8119
Fax: (618) 344-1005
E-mail: ehurley@teklabinc.com
www.teklabinc.com

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From: Elizabeth A. Hurley
Sent: Thursday, August 17, 2023 5:34 PM

To: 'Jayna Awalt' <Jayna.Awalt@et.eurofinsus.com>
Subject: RE: Teklab WO# 23071340

Thanks for the note, Jayna. It sounds like they might have gotten left behind but will be delivered tomorrow (Friday) with the 23070390 resamples.

Have a great day!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
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From: Jayna Awalt <Jayna.Awalt@et.eurofinsus.com>
Sent: Thursday, August 17, 2023 5:16 PM
To: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Cc: Jayna Awalt <Jayna.Awalt@et.eurofinsus.com>
Subject: RE: Teklab WO# 23071340
Importance: High

We still have not received this re-sample. Can you let me know when it is coming?

Also, we are not typically here after 5pm. I know 6 coolers got dropped off yesterday evening at 530pm. Someone happened to be here but just FYI typically they are not.

Thanks,

Jayna K. Awalt
Senior Project Manager
Eurofins TestAmerica St. Louis

Phone: 314-298-8566
Direct: 314-787-8277

E-mail: Jayna.Awalt@ET.EurofinsUS.com

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Tuesday, August 15, 2023 10:41 AM
To: Jayna Awalt <Jayna.Awalt@et.eurofinsus.com>
Subject: RE: Teklab WO# 23071340

EXTERNAL EMAIL*

Understood, Jayna. Thanks so much for your help. Hopefully, this is the only time we have to do this type of resampling.

Have a great day!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
Cell: (618) 791-8119
Fax: (618) 344-1005
E-mail: ehurley@teklabinc.com
www.teklabinc.com

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From: Jayna Awalt <Jayna.Awalt@et.eurofinsus.com>
Sent: Tuesday, August 15, 2023 10:33 AM
To: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Subject: RE: Teklab WO# 23071340

Good morning Elizabeth,

I can have that sample added to SDG 160-51003 with the other 23071340 WO samples. This will create a new job start date and once received we will restart the 20 BD TAT.

Thanks,

Jayna K. Awalt
Senior Project Manager
Eurofins TestAmerica St. Louis

Phone: 314-298-8566
Direct: 314-787-8277

E-mail: Jayna.Awalt@ET.EurofinsUS.com

From: Elizabeth A. Hurley <EHurley@TekLabInc.com>
Sent: Tuesday, August 15, 2023 7:55 AM
To: Jayna Awalt <Jayna.Awalt@et.eurofinsus.com>
Subject: Teklab WO# 23071340

EXTERNAL EMAIL*

Good morning, Jayna,

Teklab is required to resample at one location for WO# 23071340 and keep it on the original WO# for final reporting. We'll be delivering 23071340-045 to Eurofins-STL tomorrow or Thursday. Please include it with the original WO# and invoice. The fastest TAT available is requested in order to help expedite final reporting. We understand the constraints of the analytical process.

Thanks.

Have a great day!

Elizabeth Hurley
Director of Customer Service



Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, IL 62234
Phone: (618) 344-1004 Ext. 33
Cell: (618) 791-8119
Fax: (618) 344-1005
E-mail: ehurley@teklabinc.com
www.teklabinc.com

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Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-50934-1
SDG Number: 23070390

Login Number: 50934
List Number: 1
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	Rec samples 025 and 026 on 8/18 at 1440 added to current job per client request
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	Preserved upon rec
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-50934-1
SDG: 23070390

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-50934-2	23070390-002	Water	07/31/23 13:47	08/18/23 14:30
160-50934-3	23070390-003	Water	07/31/23 11:53	08/18/23 14:30
160-50934-4	23070390-004	Water	07/24/23 13:52	08/18/23 14:30
160-50934-5	23070390-005	Water	07/25/23 12:53	08/18/23 14:30
160-50934-6	23070390-006	Water	07/25/23 12:22	08/18/23 14:30
160-50934-7	23070390-007	Water	07/25/23 10:10	08/18/23 14:30
160-50934-8	23070390-008	Water	07/31/23 15:09	08/18/23 14:30
160-50934-9	23070390-009	Water	07/31/23 13:32	08/18/23 14:30
160-50934-10	23070390-010	Water	07/31/23 11:26	08/18/23 14:30
160-50934-11	23070390-011	Water	07/24/23 14:53	08/18/23 14:30
160-50934-12	23070390-012	Water	07/24/23 15:23	08/18/23 14:30
160-50934-13	23070390-013	Water	07/31/23 12:14	08/18/23 14:30
160-50934-14	23070390-014	Water	07/31/23 12:33	08/18/23 14:30
160-50934-15	23070390-015	Water	08/01/23 08:39	08/18/23 14:30
160-50934-16	23070390-016	Water	07/31/23 15:37	08/18/23 14:30
160-50934-17	23070390-017	Water	07/25/23 10:36	08/18/23 14:30
160-50934-18	23070390-018	Water	07/25/23 09:42	08/18/23 14:30
160-50934-19	23070390-019	Water	07/24/23 12:30	08/18/23 14:30
160-50934-20	23070390-020	Water	07/24/23 11:30	08/18/23 14:30
160-50934-21	23070390-021	Water	07/26/23 14:33	08/18/23 14:30
160-50934-22	23070390-022	Water	07/24/23 13:00	08/18/23 14:30
160-50934-23	23070390-023	Water	08/01/23 15:09	08/18/23 14:30
160-50934-25	23070390-025	Water	08/17/23 11:23	08/18/23 14:30
160-50934-26	23070390-026	Water	08/17/23 11:23	08/18/23 14:30

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-002

Date Collected: 07/31/23 13:47
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0473	U	0.0671	0.0672	1.00	0.114	pCi/L	08/07/23 10:16	08/30/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.650**		0.425	0.429	1.00	0.631	pCi/L	08/07/23 10:19	08/18/23 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:09*	*1*
Y Carrier	*84.5*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:09*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.698**		0.430	0.434	5.00	0.631	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-003

Date Collected: 07/31/23 11:53
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0165	U	0.0415	0.0415	1.00	0.109	pCi/L	08/07/23 10:16	08/30/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.481	U	0.468	0.470	1.00	0.749	pCi/L	08/07/23 10:19	08/18/23 13:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:09*	*1*
Y Carrier	*84.5*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:09*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.481	U	0.470	0.472	5.00	0.749	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-004
Date Collected: 07/24/23 13:52
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211		0.0902	0.0922	1.00	0.0969	pCi/L	08/07/23 10:16	08/30/23 15:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0336	U	0.282	0.282	1.00	0.522	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*87.9*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.245	U	0.296	0.297	5.00	0.522	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-005
Date Collected: 07/25/23 12:53
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.167		0.116	0.117	1.00	0.166	pCi/L	08/07/23 10:16	08/30/23 15:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.2*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.297	U	0.420	0.421	1.00	0.706	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.2*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*93.8*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.464	U	0.436	0.437	5.00	0.706	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-006

Lab Sample ID: 160-50934-6
Date Collected: 07/25/23 12:22
Matrix: Water
Date Received: 08/18/23 14:30

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.127	0.129	1.00	0.160	pCi/L	08/07/23 10:16	08/30/23 15:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.867		0.459	0.465	1.00	0.618	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*86.4*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.12		0.476	0.483	5.00	0.618	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-007

Lab Sample ID: 160-50934-7
Date Collected: 07/25/23 10:10
Matrix: Water
Date Received: 08/18/23 14:30

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.32		0.288	0.311	1.00	0.213	pCi/L	08/07/23 10:16	08/30/23 15:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*58.8*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.72	G	0.846	0.860	1.00	1.18	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*58.8*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*85.2*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.03		0.894	0.915	5.00	1.18	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-008

Date Collected: 07/31/23 15:09
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.571		0.152	0.160	1.00	0.110	pCi/L	08/07/23 10:16	08/30/23 15:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.208	U	0.395	0.395	1.00	0.685	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*84.1*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.779		0.423	0.426	5.00	0.685	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-009

Date Collected: 07/31/23 13:32
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-9

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.727		0.179	0.191	1.00	0.130	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.843		0.486	0.492	1.00	0.690	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*85.6*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.57		0.518	0.528	5.00	0.690	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-010
Date Collected: 07/31/23 11:26
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-10
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0849	U	0.0663	0.0667	1.00	0.0940	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.503	U	0.359	0.362	1.00	0.538	pCi/L	08/07/23 10:19	08/18/23 13:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:11*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.588**		0.365	0.368	5.00	0.538	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-011
Date Collected: 07/24/23 14:53
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-11
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.505**		0.195	0.201	1.00	0.195	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.46**	**G**	0.771	0.782	1.00	1.07	pCi/L	08/07/23 10:19	08/18/23 13:12	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:12*	*1*
Y Carrier	*86.7*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:12*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.96**		0.795	0.807	5.00	1.07	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-012

Date Collected: 07/24/23 15:23
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-12

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0327	U	0.0778	0.0779	1.00	0.141	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.417	U	0.394	0.396	1.00	0.629	pCi/L	08/07/23 10:19	08/18/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.8*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:15*	*1*
Y Carrier	*85.6*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:15*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.450	U	0.402	0.404	5.00	0.629	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-013

Date Collected: 07/31/23 12:14
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-13

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.116**		0.0823	0.0830	1.00	0.115	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.426	U	0.441	0.443	1.00	0.715	pCi/L	08/07/23 10:19	08/18/23 13:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:15*	*1*
Y Carrier	*87.5*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:15*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.542	U	0.449	0.451	5.00	0.715	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-014
Date Collected: 07/31/23 12:33
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-14
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.243		0.0997	0.102	1.00	0.105	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.383	U	0.406	0.407	1.00	0.660	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.6*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*86.4*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.627	U	0.418	0.420	5.00	0.660	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-015
Date Collected: 08/01/23 08:39
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-15
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.920		0.278	0.290	1.00	0.255	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.0*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.902	U G	0.900	0.904	1.00	1.45	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.0*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*87.1*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.82		0.942	0.949	5.00	1.45	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-016

Date Collected: 07/31/23 15:37
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.652		0.183	0.193	1.00	0.174	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.529	0.539	1.00	0.729	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.2*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*87.5*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.74		0.560	0.573	5.00	0.729	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-017

Date Collected: 07/25/23 10:36
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-17

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.03		0.189	0.211	1.00	0.131	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.890		0.440	0.448	1.00	0.600	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*85.2*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.92		0.479	0.495	5.00	0.600	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-018

Date Collected: 07/25/23 09:42
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-18

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.668		0.180	0.190	1.00	0.163	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.56		0.654	0.670	1.00	0.872	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*84.5*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.23		0.678	0.696	5.00	0.872	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-019

Date Collected: 07/24/23 12:30
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-19

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0350	U	0.104	0.104	1.00	0.196	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0220	U G	0.698	0.698	1.00	1.28	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*82.2*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0350	U	0.706	0.706	5.00	1.28	pCi/L		09/14/23 17:06	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-020
Date Collected: 07/24/23 11:30
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-20
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163		0.109	0.110	1.00	0.150	pCi/L	08/07/23 10:16	08/30/23 15:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:23*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.763	U	0.634	0.638	1.00	1.00	pCi/L	08/07/23 10:19	08/18/23 13:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*
Y Carrier	*84.9*		*30 - 110*	*08/07/23 10:19*	*08/18/23 13:16*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.926	U	0.643	0.647	5.00	1.00	pCi/L		09/14/23 17:06	1

Client Sample ID: 23070390-021
Date Collected: 07/26/23 14:33
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-21
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0964	U	0.0952	0.0956	1.00	0.149	pCi/L	08/07/23 11:21	08/29/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.9*		*30 - 110*	*08/07/23 11:21*	*08/29/23 16:14*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.206	U	0.379	0.379	1.00	0.783	pCi/L	08/07/23 11:24	08/18/23 13:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.9*		*30 - 110*	*08/07/23 11:24*	*08/18/23 13:06*	*1*
Y Carrier	*85.2*		*30 - 110*	*08/07/23 11:24*	*08/18/23 13:06*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0964	U	0.391	0.391	5.00	0.783	pCi/L		09/14/23 17:05	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-022

Date Collected: 07/24/23 13:00
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.387		0.194	0.197	1.00	0.233	pCi/L	08/07/23 11:21	08/29/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*46.8*		*30 - 110*	*08/07/23 11:21*	*08/29/23 16:14*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.99	G	1.10	1.13	1.00	1.28	pCi/L	08/07/23 11:24	08/18/23 13:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*46.8*		*30 - 110*	*08/07/23 11:24*	*08/18/23 13:07*	*1*
Y Carrier	*80.4*		*30 - 110*	*08/07/23 11:24*	*08/18/23 13:07*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.38		1.12	1.15	5.00	1.28	pCi/L		09/14/23 17:05	1

Client Sample ID: 23070390-023

Date Collected: 08/01/23 15:09
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-23

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00154	U	0.0665	0.0665	1.00	0.133	pCi/L	08/07/23 11:21	08/29/23 16:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*08/07/23 11:21*	*08/29/23 16:14*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.314	U	0.382	0.383	1.00	0.632	pCi/L	08/07/23 11:24	08/18/23 13:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*08/07/23 11:24*	*08/18/23 13:07*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/07/23 11:24*	*08/18/23 13:07*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.314	U	0.388	0.389	5.00	0.632	pCi/L		09/14/23 17:05	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Client Sample ID: 23070390-025

Date Collected: 08/17/23 11:23
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-25

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.251		0.131	0.133	1.00	0.159	pCi/L	08/22/23 09:49	09/13/23 07:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*08/22/23 09:49*	*09/13/23 07:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.952		0.524	0.531	1.00	0.745	pCi/L	08/22/23 09:53	09/07/23 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*08/22/23 09:53*	*09/07/23 11:36*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/22/23 09:53*	*09/07/23 11:36*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.20		0.540	0.547	5.00	0.745	pCi/L		09/15/23 15:50	1

Client Sample ID: 23070390-026

Date Collected: 08/17/23 11:23
Date Received: 08/18/23 14:30

Lab Sample ID: 160-50934-26

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122	U	0.103	0.103	1.00	0.152	pCi/L	08/22/23 09:49	09/13/23 07:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*08/22/23 09:49*	*09/13/23 07:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.52		0.667	0.706	1.00	0.751	pCi/L	08/22/23 09:53	09/07/23 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*08/22/23 09:53*	*09/07/23 11:36*	*1*
Y Carrier	*85.2*		*30 - 110*	*08/22/23 09:53*	*09/07/23 11:36*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.64		0.675	0.713	5.00	0.751	pCi/L		09/15/23 15:50	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-623112/1-A
Matrix: Water
Analysis Batch: 626130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623112

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04088	U	0.0507	0.0508	1.00	0.0833	pCi/L	08/07/23 10:16	08/30/23 15:18	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*08/07/23 10:16*	*08/30/23 15:18*	*1*

Lab Sample ID: LCS 160-623112/2-A
Matrix: Water
Analysis Batch: 626130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623112

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.77		1.11	1.00	0.0863	pCi/L	95	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*88.2*		*30 - 110*

Lab Sample ID: LCSD 160-623112/3-A
Matrix: Water
Analysis Batch: 626130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623112

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	11.3	9.862		1.03	1.00	0.0897	pCi/L	87	75 - 125	0.42	1

Carrier	*LCSD %Yield*	*LCSD Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*

Lab Sample ID: MB 160-623229/1-A
Matrix: Water
Analysis Batch: 625944

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623229

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02509	U	0.0526	0.0526	1.00	0.0954	pCi/L	08/07/23 11:21	08/29/23 16:14	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*08/07/23 11:21*	*08/29/23 16:14*	*1*

Lab Sample ID: LCS 160-623229/2-A
Matrix: Water
Analysis Batch: 625944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623229

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.52		1.09	1.00	0.0996	pCi/L	93	75 - 125

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-623229/2-A
Matrix: Water
Analysis Batch: 625944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623229

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.7		30 - 110

Lab Sample ID: LCSD 160-623229/3-A
Matrix: Water
Analysis Batch: 625944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623229

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	10.17		1.06	1.00	0.107	pCi/L	90	75 - 125	0.16	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	88.2		30 - 110

Lab Sample ID: MB 160-624956/1-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624956

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.006388	U	0.0589	0.0589	1.00	0.125	pCi/L	08/22/23 09:49	09/13/23 07:23	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	68.9		30 - 110	08/22/23 09:49	09/13/23 07:23	1

Lab Sample ID: LCS 160-624956/2-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624956

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226			11.3	10.65		1.15	1.00	0.115	pCi/L	94	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	80.2		30 - 110

Lab Sample ID: LCSD 160-624956/3-A
Matrix: Water
Analysis Batch: 627936

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624956

Analyte			Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226			11.3	11.13		1.20	1.00	0.130	pCi/L	98	75 - 125	0.20	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	76.9		30 - 110

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-623113/1-A
Matrix: Water
Analysis Batch: 624736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623113

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1729	U	0.321	0.321	1.00	0.553	pCi/L	08/07/23 10:19	08/18/23 13:08	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110	08/07/23 10:19	08/18/23 13:08	1
Y Carrier	83.0		30 - 110	08/07/23 10:19	08/18/23 13:08	1

Lab Sample ID: LCS 160-623113/2-A
Matrix: Water
Analysis Batch: 624736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623113

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.95	9.000		1.28	1.00	0.639	pCi/L	113	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.2		30 - 110
Y Carrier	87.1		30 - 110

Lab Sample ID: LCSD 160-623113/3-A
Matrix: Water
Analysis Batch: 624736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623113

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	7.95	8.226		1.20	1.00	0.671	pCi/L	104	75 - 125	0.31	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	93.4		30 - 110
Y Carrier	85.6		30 - 110

Lab Sample ID: MB 160-623230/1-A
Matrix: Water
Analysis Batch: 624736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623230

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1059	U	0.288	0.288	1.00	0.514	pCi/L	08/07/23 11:24	08/18/23 13:06	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110	08/07/23 11:24	08/18/23 13:06	1
Y Carrier	82.6		30 - 110	08/07/23 11:24	08/18/23 13:06	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-623230/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 624736 — **Prep Batch: 623230**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.95	8.453		1.25	1.00	0.595	pCi/L	106	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.7		30 - 110
Y Carrier	78.5		30 - 110

Lab Sample ID: LCSD 160-623230/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 624736 — **Prep Batch: 623230**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	7.95	8.012		1.21	1.00	0.642	pCi/L	101	75 - 125	0.18	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	88.2		30 - 110
Y Carrier	81.9		30 - 110

Lab Sample ID: MB 160-624957/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 627054 — **Prep Batch: 624957**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.7864		0.510	0.515	1.00	0.758	pCi/L	08/22/23 09:53	09/07/23 11:35	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	68.9		30 - 110	08/22/23 09:53	09/07/23 11:35	1
Y Carrier	83.0		30 - 110	08/22/23 09:53	09/07/23 11:35	1

Lab Sample ID: LCSD 160-624957/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 627054 — **Prep Batch: 624957**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	7.90	8.607		1.29	1.00	0.620	pCi/L	109	75 - 125	0.52	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	76.9		30 - 110
Y Carrier	84.5		30 - 110

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Rad

Prep Batch: 623112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-2	23070390-002	Total/NA	Water	PrecSep-21	
160-50934-3	23070390-003	Total/NA	Water	PrecSep-21	
160-50934-4	23070390-004	Total/NA	Water	PrecSep-21	
160-50934-5	23070390-005	Total/NA	Water	PrecSep-21	
160-50934-6	23070390-006	Total/NA	Water	PrecSep-21	
160-50934-7	23070390-007	Total/NA	Water	PrecSep-21	
160-50934-8	23070390-008	Total/NA	Water	PrecSep-21	
160-50934-9	23070390-009	Total/NA	Water	PrecSep-21	
160-50934-10	23070390-010	Total/NA	Water	PrecSep-21	
160-50934-11	23070390-011	Total/NA	Water	PrecSep-21	
160-50934-12	23070390-012	Total/NA	Water	PrecSep-21	
160-50934-13	23070390-013	Total/NA	Water	PrecSep-21	
160-50934-14	23070390-014	Total/NA	Water	PrecSep-21	
160-50934-15	23070390-015	Total/NA	Water	PrecSep-21	
160-50934-16	23070390-016	Total/NA	Water	PrecSep-21	
160-50934-17	23070390-017	Total/NA	Water	PrecSep-21	
160-50934-18	23070390-018	Total/NA	Water	PrecSep-21	
160-50934-19	23070390-019	Total/NA	Water	PrecSep-21	
160-50934-20	23070390-020	Total/NA	Water	PrecSep-21	
MB 160-623112/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-623112/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-623112/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 623113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-2	23070390-002	Total/NA	Water	PrecSep_0	
160-50934-3	23070390-003	Total/NA	Water	PrecSep_0	
160-50934-4	23070390-004	Total/NA	Water	PrecSep_0	
160-50934-5	23070390-005	Total/NA	Water	PrecSep_0	
160-50934-6	23070390-006	Total/NA	Water	PrecSep_0	
160-50934-7	23070390-007	Total/NA	Water	PrecSep_0	
160-50934-8	23070390-008	Total/NA	Water	PrecSep_0	
160-50934-9	23070390-009	Total/NA	Water	PrecSep_0	
160-50934-10	23070390-010	Total/NA	Water	PrecSep_0	
160-50934-11	23070390-011	Total/NA	Water	PrecSep_0	
160-50934-12	23070390-012	Total/NA	Water	PrecSep_0	
160-50934-13	23070390-013	Total/NA	Water	PrecSep_0	
160-50934-14	23070390-014	Total/NA	Water	PrecSep_0	
160-50934-15	23070390-015	Total/NA	Water	PrecSep_0	
160-50934-16	23070390-016	Total/NA	Water	PrecSep_0	
160-50934-17	23070390-017	Total/NA	Water	PrecSep_0	
160-50934-18	23070390-018	Total/NA	Water	PrecSep_0	
160-50934-19	23070390-019	Total/NA	Water	PrecSep_0	
160-50934-20	23070390-020	Total/NA	Water	PrecSep_0	
MB 160-623113/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-623113/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-623113/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 623229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-21	23070390-021	Total/NA	Water	PrecSep-21	

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Rad (Continued)

Prep Batch: 623229 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-22	23070390-022	Total/NA	Water	PrecSep-21	
160-50934-23	23070390-023	Total/NA	Water	PrecSep-21	
MB 160-623229/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-623229/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-623229/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 623230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-21	23070390-021	Total/NA	Water	PrecSep_0	
160-50934-22	23070390-022	Total/NA	Water	PrecSep_0	
160-50934-23	23070390-023	Total/NA	Water	PrecSep_0	
MB 160-623230/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-623230/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-623230/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 624956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-25	23070390-025	Total/NA	Water	PrecSep-21	
160-50934-26	23070390-026	Total/NA	Water	PrecSep-21	
MB 160-624956/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-624956/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-624956/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 624957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-50934-25	23070390-025	Total/NA	Water	PrecSep_0	
160-50934-26	23070390-026	Total/NA	Water	PrecSep_0	
MB 160-624957/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCSD 160-624957/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
160-50934-2	23070390-002	85.0
160-50934-3	23070390-003	87.7
160-50934-4	23070390-004	90.4
160-50934-5	23070390-005	90.2
160-50934-6	23070390-006	88.0
160-50934-7	23070390-007	58.8
160-50934-8	23070390-008	96.8
160-50934-9	23070390-009	89.0
160-50934-10	23070390-010	87.5
160-50934-11	23070390-011	87.7
160-50934-12	23070390-012	83.8
160-50934-13	23070390-013	81.6
160-50934-14	23070390-014	81.6
160-50934-15	23070390-015	74.0
160-50934-16	23070390-016	92.2
160-50934-17	23070390-017	87.0
160-50934-18	23070390-018	84.8
160-50934-19	23070390-019	98.8
160-50934-20	23070390-020	84.3
160-50934-21	23070390-021	81.9
160-50934-22	23070390-022	46.8
160-50934-23	23070390-023	89.0
160-50934-25	23070390-025	91.5
160-50934-26	23070390-026	99.5
LCS 160-623112/2-A	Lab Control Sample	88.2
LCS 160-623229/2-A	Lab Control Sample	88.7
LCS 160-624956/2-A	Lab Control Sample	80.2
LCSD 160-623112/3-A	Lab Control Sample Dup	93.4
LCSD 160-623229/3-A	Lab Control Sample Dup	88.2
LCSD 160-624956/3-A	Lab Control Sample Dup	76.9
MB 160-623112/1-A	Method Blank	94.1
MB 160-623229/1-A	Method Blank	92.6
MB 160-624956/1-A	Method Blank	68.9

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
160-50934-2	23070390-002	85.0	84.5
160-50934-3	23070390-003	87.7	84.5
160-50934-4	23070390-004	90.4	87.9
160-50934-5	23070390-005	90.2	93.8
160-50934-6	23070390-006	88.0	86.4
160-50934-7	23070390-007	58.8	85.2
160-50934-8	23070390-008	96.8	84.1

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-50934-1
SDG: 23070390

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
160-50934-9	23070390-009	89.0	85.6
160-50934-10	23070390-010	87.5	83.0
160-50934-11	23070390-011	87.7	86.7
160-50934-12	23070390-012	83.8	85.6
160-50934-13	23070390-013	81.6	87.5
160-50934-14	23070390-014	81.6	86.4
160-50934-15	23070390-015	74.0	87.1
160-50934-16	23070390-016	92.2	87.5
160-50934-17	23070390-017	87.0	85.2
160-50934-18	23070390-018	84.8	84.5
160-50934-19	23070390-019	98.8	82.2
160-50934-20	23070390-020	84.3	84.9
160-50934-21	23070390-021	81.9	85.2
160-50934-22	23070390-022	46.8	80.4
160-50934-23	23070390-023	89.0	83.0
160-50934-25	23070390-025	91.5	83.7
160-50934-26	23070390-026	99.5	85.2
LCS 160-623113/2-A	Lab Control Sample	88.2	87.1
LCS 160-623230/2-A	Lab Control Sample	88.7	78.5
LCSD 160-623113/3-A	Lab Control Sample Dup	93.4	85.6
LCSD 160-623230/3-A	Lab Control Sample Dup	88.2	81.9
LCSD 160-624957/3-A	Lab Control Sample Dup	76.9	84.5
MB 160-623113/1-A	Method Blank	94.1	83.0
MB 160-623230/1-A	Method Blank	92.6	82.6
MB 160-624957/1-A	Method Blank	68.9	83.0

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-116A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW02 (resample)	8/17/2023	11:17	1117	7.32		17.5	63.5	6.7	8469.5	8469.5	1.48	19.76	85.5	
APW02 (resample)	8/17/2023	11:20	1120	7.32		17.7	63.86	6.71	8465.1	8465.1	1.56	16.35	90.1	
APW02 (resample)	8/17/2023	11:23	1123	7.32		17.5	63.5	6.72	8435.3	8435.3	1.6	17.1	93.4	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-117A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW02 DUP (resample)	8/17/2023	11:17	1117	7.32		17.5	63.5	6.7	8469.5	8469.5	1.48	19.76	85.5	
APW02 DUP (resample)	8/17/2023	11:20	1120	7.32		17.7	63.86	6.71	8465.1	8465.1	1.56	16.35	90.1	
APW02 DUP (resample)	8/17/2023	11:23	1123	7.32		17.5	63.5	6.72	8435.3	8435.3	1.6	17.1	93.4	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-006A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW03	7/31/2023	13:41	1341	8.47		16.3	61.34	7.15			1.17	12.26	67.8	
APW03	7/31/2023	13:44	1344	8.47		16.7	62.06	6.9			0.85	4.76	66	
APW03	7/31/2023	13:47	1347	8.47		16.5	61.7	6.79			0.75	5.61	64.4	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-007A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW04	7/31/2023	11:47	1147	5.93		19.1	66.38	6.62			0.79	10.54	97.3	
APW04	7/31/2023	11:50	1150	5.93		19.2	66.56	6.59			0.7	7.16	94.3	
APW04	7/31/2023	11:53	1153	5.93		18.9	66.02	6.59			0.68	8	92.5	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-008A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW05	7/24/2023	13:46	1346	14.34		15.8	60.44	8.37	1025.1	1025.1	0.56	10.77	-31	
APW05	7/24/2023	13:49	1349	14.34		15.7	60.26	8.15	1025.3	1025.3	0.41	10.1	-57.6	
APW05	7/24/2023	13:52	1352	14.34		15.6	60.08	8.02	1026.1	1026.1	0.36	13.72	-88.2	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-009A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW05S	7/25/2023	12:47	1247	13.59		19.3	66.74	6.9			0.46	55.25	37.1	
APW05S	7/25/2023	12:50	1250	13.59		19.8	67.64	6.88			0.38	50.34	36	
APW05S	7/25/2023	12:53	1253	13.59		19.5	67.1	6.88			0.31	49.78	35.5	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-010A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW06	7/25/2023	12:16	1216	19.5		14.3	57.74	7.73	646.8	646.8	0.59	18.13	34.7	
APW06	7/25/2023	12:19	1219	19.5		14.4	57.92	7.71	646.8	646.8	0.46	18.02	28.3	
APW06	7/25/2023	12:22	1222	19.5		14.5	58.1	7.7	646.6	646.6	0.39	17.9	21.6	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-011A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW07	7/25/2023	10:04	1004	47.33		15.8	60.44	7.07			6.39	10.54	53	
APW07	7/25/2023	10:07	1007	47.33		15.7	60.26	7.2			7.9	19.04	35.5	
APW07	7/25/2023	10:10	1010	47.33		15.8	60.44	7.35			9.5	388.39	32.7	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-012A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW08	7/31/2023	15:03	1503	38.33		17.3	63.14	7.24			1.7	8.95	97.8	
APW08	7/31/2023	15:06	1506	38.33		17.4	63.32	7.1			1.12	8.91	96.1	
APW08	7/31/2023	15:09	1509	38.33		17.5	63.5	7.08			0.95	10.56	94	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-013A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW09	7/31/2023	13:26	1326	27.85		17.5	63.5	7.33			0.85	12.36	97.6	
APW09	7/31/2023	13:29	1329	27.85		17.8	64.04	7.22			0.59	9.28	93.8	
APW09	7/31/2023	13:32	1332	27.85		17.9	64.22	7.2			0.47	4.99	90.9	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-014A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW10	7/31/2023	11:17	1117	19.4				7.07			2.28	67.9	116.8	
APW10	7/31/2023	11:20	1120	19.4		17.2	62.96	7.06			1.89	8.93	110.6	
APW10	7/31/2023	11:23	1123	19.4		16.9	62.42	7.06			1.68	10.38	106.7	
APW10	7/31/2023	11:26	1126	19.4		17.1	62.78	7.07			1.58	4.22	103.9	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-015A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW11	7/24/2023	14:41	1441	25.09		15.5	59.9	7.2	1343.7	1343.7	0.34	109.63	-49	
APW11	7/24/2023	14:44	1444	25.09		15.5	59.9	7.19	1342.9	1342.9	0.33	106.01	-50.8	
APW11	7/24/2023	14:47	1447	25.09		15.5	59.9	7.19	1344.2	1344.2	0.32	103.24	-51.8	
APW11	7/24/2023	14:50	1450	25.09		15.5	59.9	7.18	1342.2	1342.2	0.32	97.32	-53	
APW11	7/24/2023	14:53	1453	25.09		15.5	59.9	7.17	1343.7	1343.7	0.31	127.02	-53.7	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-016A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW12	7/24/2023	15:17	1517	15.93		13.8	56.84	6.49	1753.7	1753.7	1.11	3.84	48	
APW12	7/24/2023	15:20	1520	15.93		13.7	56.66	6.41	2142.3	2142.3	0.53	1.83	47.5	
APW12	7/24/2023	15:23	1523	15.93		13.7	56.66	6.39	2191.8	2191.8	0.4	0.9	47.1	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-017A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW13	7/31/2023	12:08	1208	33.49		18.3	64.94	6.98			1.77	8.97	113.9	
APW13	7/31/2023	12:11	1211	33.49		17.9	64.22	6.95			0.72	10.24	112	
APW13	7/31/2023	12:14	1214	33.49		18.1	64.58	6.94			0.56	5.8	109.3	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-018A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW14	7/31/2023	12:27	1227	22.12		16.3	61.34	7.29			2.8	5.35	122.6	
APW14	7/31/2023	12:30	1230	22.12		16.5	61.7	7.09			0.63	12.63	121.2	
APW14	7/31/2023	12:33	1233	22.12		16.2	61.16	7.04			0.45	7.73	116.9	

Site Sampling Event	Newton 3Q 2023		Groundwater Sampling Field Form - Groundwater Quality Parameters											
LIMS Workorder	23070389-019A													
Technician	BG,JC,TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW15	8/1/2023	8:27	0827	21.4		15	59	7.02	2575.2	2575.2	0.94	34.6	15.8	
APW15	8/1/2023	8:30	0830	21.4		14.8	58.64	6.97	2575.8	2575.8	0.69	62.31	-30.1	
APW15	8/1/2023	8:33	0833	21.4		14.8	58.64	6.94	2575.8	2575.8	0.55	57.94	-46.6	
APW15	8/1/2023	8:36	0836	21.4		15.2	59.36	6.92	2577.5	2577.5	0.51	67.2	-55.7	
APW15	8/1/2023	8:39	0839	21.4		15.2	59.36	6.92	2574.8	2574.8	0.49	133.75	-61.8	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-020A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW16	7/31/2023	15:31	1531	40.89		15.1	59.18	7.54	966.8	966.8	7.74	9.2	103.4	
APW16	7/31/2023	15:34	1534	40.89		14.3	57.74	7.19	939.4	939.4	1.94	3.8	108.4	
APW16	7/31/2023	15:37	1537	40.89		14.2	57.56	7.13	946	946	1.14	3.24	107.9	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-021A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW17	7/25/2023	10:30	1030	41.81		16.5	61.7	7.27			2.02	5.63	70.7	
APW17	7/25/2023	10:33	1033	41.81		16.8	62.24	7			0.84	4.92	66.1	
APW17	7/25/2023	10:36	1036	41.81		16.6	61.88	6.94			0.51	4.49	50.3	

Site Sampling Event	Newton 3Q 2023
LIMS Workorder	23070389-022A
Technician	BG,JC,TAC

Groundwater Sampling Field Form - Groundwater Quality Parameters

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW18	7/25/2023	9:36	0936	52.25		14.6	58.28	7.32	750.6	750.6	2.19	5.25	79.1	
APW18	7/25/2023	9:39	0939	52.25		14.4	57.92	7.25	755.8	755.8	0.69	4.51	67.3	
APW18	7/25/2023	9:42	0942	52.25		14.4	57.92	7.22	755.8	755.8	0.52	3.61	48.5	

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	7-24-13	1046	26.1		6.98			1385					
CCV	7-24-13	1603	25.4		7.01			1536					

****** Field Meter ID for Temp, pH & Conductivity :** _____ ****** Field Meter ID for (_____) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	_____	_____ Std._____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	Conductivity Std. _____	_____	_____ Std._____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____	_____	_____ Std._____	_____
Other: _____			pH LCS/LCSD __7___	WC230504B	Conductivity LCS/LCSD ____	_____	_____ LCS/LCSD _____	_____

pH Calibration

Date: 7-24-13
Time: 0758

	Reading
	4.01
	7.02
	10.01

Field Analyst Sig & Date: [signature] 7-24-13
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1410	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: [signature] 7-24-13
Reviewed By & Date: _____
Reviewed By & Date: _____

_____	Calibration	Reading
Std_____	Units _____	_____
Std_____	Units _____	_____
Std_____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results Reading 1	pH Results Reading 2	pH Results LCSD	Conductivity Range Factor	Conductivity Reading 1	Conductivity Reading 2	Other: DF	Other: Read1/units	Other: DF	Other: Read2/units
LCS	7-25-23	0712	25.6		7.03			1412					
CCV	7-25-23	0319	24.8		7.06			1471					

****** Field Meter ID for Temp, pH & Conductivity :** _____

****** Field Meter ID for (_____) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	_____	_____ Std._____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	Conductivity Std. _____	_____	_____ Std._____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____	_____	_____ Std._____	_____
Other: _____			pH LCS/LCSD __7___	WC230504B	Conductivity LCS/LCSD _____	_____	_____ LCS/LCSD _____	_____

pH Calibration

Date: 7-25-23
Time: 0651

	Reading
	4.01
	6.98
	9.98

Field Analyst Sig & Date: JSA CL 7-25-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	~~1491~~ JC 1457	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: JSA CL 7-25-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____	Calibration	Reading
Std_____	Units _____	_____
Std_____	Units _____	_____
Std_____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	7-25-23	9[illegible]2	24.7		7.02			1413					
CCV	7-25-23	0314	23.8		7.04			1443					

****** Field Meter ID for Temp, pH & Conductivity :** _____ ****** Field Meter ID for (_____) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	_____	_____ Std._____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	Conductivity Std. _____	_____	_____ Std._____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____	_____	_____ Std._____	_____
Other: _____			pH LCS/LCSD __7___	WC230504B	Conductivity LCS/LCSD _____	_____	_____ LCS/LCSD _____	_____

pH Calibration

Date: 7-25-23
Time: 929

	Reading
	4.02
	7.01
	10.

Field Analyst Sig & Date: Brett Gilmore 7-25-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1425	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: Brett Gilmore 7-25-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____	Calibration	Reading
Std_____	Units _____	_____
Std_____	Units _____	_____
Std_____	Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other:			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	7-31-13	~~24.8~~ 1107	24.8		7.03			M22					
CCV	7-31-13	1552	21.3		7.02			1457					

****** Field Meter ID for Temp, pH & Conductivity :** _____ ****** Field Meter ID for (** _____ **) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	_____	_____ Std._____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	Conductivity Std. _____	_____	_____ Std._____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____	_____	_____ Std._____	_____
Other: _____			pH LCS/LCSD __7___	WC230504B	Conductivity LCS/LCSD _____	_____	_____ LCS/LCSD _____	_____

pH Calibration

Date: 7-31-13
Time: 1050

Reading
4.00
7.01
9.99

Field Analyst Sig & Date: [signature] 7-31-13
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration

		Reading	units
_____	µS 0-199.9		µS
_____	µS 0-1999	1415	µS
_____	mS 0-19.99		mS

Field Analyst Sig & Date: [signature] 7-31-13
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std_____ Units _____	_____
Std_____ Units _____	_____
Std_____ Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	8-1-23	0806	21.6		7.02			1418					
CCV	8-1-23	1521	22.3		7.02			~~1459~~ 1459					

****** Field Meter ID for Temp, pH & Conductivity :** _____

****** Field Meter ID for (_____) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer	WC230418A	Conductivity Std. _____	_____	_____ Std._____	_____
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer	WC230210B	Conductivity Std. _____	_____	_____ Std._____	_____
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer	WC230504C	Conductivity Std. _____	_____	_____ Std._____	_____
Other: _____			pH LCS/LCSD __7___	WC230504B	Conductivity LCS/LCSD ____	_____	_____ LCS/LCSD _____	_____

pH Calibration	Reading
	4.00
	6.99
	9.98

Date: 8-1-23
Time: 0746

Field Analyst Sig & Date: 8-1-23
Reviewed By & Date: _____
Reviewed By & Date: _____

Conductivity Calibration			Reading	units
_____	µS	0-199.9	_____	µS
_____	µS	0-1999	1413	µS
_____	mS	0-19.99	_____	mS

Field Analyst Sig & Date: 8-1-23
Reviewed By & Date: _____
Reviewed By & Date: _____

_____ Calibration	Reading
Std_____ Units _____	_____
Std_____ Units _____	_____
Std_____ Units _____	_____

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Comments:

Field Analysis Log

Cross Reference to Sample ID	Date mm/dd/yy	Time	Temp. C	pH Results			Conductivity			Other: _____			
				Reading 1	Reading 2	LCSD	Range Factor	Reading 1	Reading 2	DF	Read1/units	DF	Read2/units
LCS	8-17-23	1051	20.8		7.02			1431					
CCV	8-17-23	1135	21.3		7.02			1429					

****** Field Meter ID for Temp, pH & Conductivity :** _____ ****** Field Meter ID for (_____) :** _____

	SW846	Std Methods		Lot #		Lot #		Lot #
Field Temp SOP 1156		2550 B	pH 4.0 Buffer		Conductivity Std. _____		_____ Std._____	
pH in the Field SOP 1152	9040B	4500-H B	pH 7.0 Buffer		Conductivity Std. _____		_____ Std._____	
Field Cond. SOP 1155	9050A	2510 B	pH 10.0 Buffer		Conductivity Std. _____		_____ Std._____	
Other: _____			pH LCS/LCSD __7___		Conductivity LCS/LCSD _____		_____ LCS/LCSD _____	

pH Calibration	Reading
Date: 8-17-23	4.01
	7.00
Time: 1037	9.99

Field Analyst Sig & Date: 8-17-23
Reviewed By & Date:
Reviewed By & Date:

Conductivity Calibration			Reading	units
_____	µS	0-199.9		µS
_____	µS	0-1999	1415	µS
_____	mS	0-19.99		mS

Field Analyst Sig & Date: 8-17-23
Reviewed By & Date:
Reviewed By & Date:

_____ Calibration	Reading
Std_____ Units _____	
Std_____ Units _____	
Std_____ Units _____	

Field Analyst Sig & Date:
Reviewed By & Date:
Reviewed By & Date:

Comments:

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

November 17, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NEW-23Q4 **WorkOrder:** 23091794

Dear Eric Bauer:

TEKLAB, INC received 22 samples for NEW_257_501 on 10/12/2023 5:02:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23

This reporting package includes the following:

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Report Contents	2
Definitions	3
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Accreditations	6
Laboratory Results	7
Quality Control Results	48
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Chain of Custody	Appended

Definitions

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Teklab, Inc. Environmental Laboratory

Case Narrative

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23

Cooler Receipt Temp: 3.2 °C

An employee of Teklab, Inc. collected the sample(s).

T101 and T102 went dry; no sample volume was collected.

Date/times of collection for depth, only wells are per field file(s). EAH 10/13/23

G104 Duplicate collection date/time per G104 markings. EAH 10/19/23

Per Eric Bauer's request, only NEW_257_501 data is included in this report. EAH 11/17/23

Locations

Collinsville

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Springfield

Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Kansas City

Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Collinsville Air

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Chicago

Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	arenner@teklabinc.com

Accreditations

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-005 **Client Sample ID:** APW02

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**8.14**	ft	1	10/10/2023 11:56	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**6.4**	NTU	1	10/10/2023 11:56	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**11**	mV	1	10/10/2023 11:56	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**4390**	µS/cm	1	10/10/2023 11:56	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.3**	°C	1	10/10/2023 11:56	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.28**	mg/L	1	10/10/2023 11:56	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**6.68**		1	10/10/2023 11:56	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**648**	mg/L	1	10/17/2023 14:00	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:00	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**3890**	mg/L	1	10/12/2023 10:50	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		**2900**	mg/L	100	10/13/2023 12:40	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.23**	mg/L	1	10/12/2023 13:00	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**100**	mg/L	10	10/13/2023 12:34	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**506**	mg/L	1	10/13/2023 19:57	213214
Magnesium	NELAP	0.007	0.050		**471**	mg/L	1	10/13/2023 19:57	213214
Potassium	NELAP	0.040	0.100		**7.07**	mg/L	1	10/13/2023 19:57	213214
Sodium	NELAP	0.018	0.050		**441**	mg/L	1	10/13/2023 19:57	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:04	213214
Arsenic	NELAP	0.4	1.0	J	**0.6**	µg/L	5	10/13/2023 14:04	213214
Barium	NELAP	0.7	1.0		**13.6**	µg/L	5	10/13/2023 14:04	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 9:32	213214
Boron	NELAP	9.2	25.0		**111**	µg/L	5	10/16/2023 9:32	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:04	213214
Chromium	NELAP	0.7	1.5	J	**0.9**	µg/L	5	10/13/2023 14:04	213214
Cobalt	NELAP	0.1	1.0	J	**0.4**	µg/L	5	10/18/2023 9:29	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/16/2023 9:32	213214
Lithium	*	1.4	3.0		**105**	µg/L	5	10/16/2023 9:32	213214
Molybdenum	NELAP	0.6	1.5		**1.6**	µg/L	5	10/13/2023 14:04	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:04	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 9:32	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-005
Client Sample ID: APW02
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:04	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-006 **Client Sample ID:** APW03

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 14:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**8.04**	ft	1	10/10/2023 14:00	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**6.8**	NTU	1	10/10/2023 14:00	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-10**	mV	1	10/10/2023 14:00	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**840**	µS/cm	1	10/10/2023 14:00	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**19.8**	°C	1	10/10/2023 14:00	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.51**	mg/L	1	10/10/2023 14:00	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**6.91**		1	10/10/2023 14:00	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**480**	mg/L	1	10/17/2023 14:09	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:09	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**628**	mg/L	1	10/12/2023 10:50	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**113**	mg/L	5	10/16/2023 14:30	R337819
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.26**	mg/L	1	10/12/2023 13:01	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**7**	mg/L	1	10/13/2023 12:45	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**92.5**	mg/L	1	10/13/2023 19:58	213214
Magnesium	NELAP	0.007	0.050		**52.7**	mg/L	1	10/13/2023 19:58	213214
Potassium	NELAP	0.040	0.100		**0.463**	mg/L	1	10/13/2023 19:58	213214
Sodium	NELAP	0.018	0.050		**61.8**	mg/L	1	10/13/2023 19:58	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:10	213214
Arsenic	NELAP	0.4	1.0	J	**0.7**	µg/L	5	10/13/2023 14:10	213214
Barium	NELAP	0.7	1.0		**110**	µg/L	5	10/13/2023 14:10	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 9:38	213214
Boron	NELAP	9.2	25.0		**440**	µg/L	5	10/16/2023 9:38	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:10	213214
Chromium	NELAP	0.7	1.5		**3.0**	µg/L	5	10/13/2023 14:10	213214
Cobalt	NELAP	0.1	1.0	J	**0.3**	µg/L	5	10/18/2023 9:34	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:10	213214
Lithium	*	1.4	3.0		**11.1**	µg/L	5	10/16/2023 9:38	213214
Molybdenum	NELAP	0.6	1.5	J	**0.9**	µg/L	5	10/13/2023 14:10	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:10	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 9:38	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-006
Client Sample ID: APW03
Matrix: GROUNDWATER
Collection Date: 10/10/2023 14:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:07	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-007 **Client Sample ID:** APW04

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 15:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**5.45**	ft	1	10/10/2023 15:23	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**9.8**	NTU	1	10/10/2023 15:23	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**19**	mV	1	10/10/2023 15:23	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1810**	µS/cm	1	10/10/2023 15:23	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.8**	°C	1	10/10/2023 15:23	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.47**	mg/L	1	10/10/2023 15:23	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**6.79**		1	10/10/2023 15:23	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**528**	mg/L	1	10/17/2023 14:13	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:13	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1710**	mg/L	1	10/12/2023 10:50	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		**808**	mg/L	50	10/13/2023 13:28	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.20**	mg/L	1	10/12/2023 13:03	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**34**	mg/L	1	10/13/2023 13:22	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**206**	mg/L	1	10/13/2023 20:00	213214
Magnesium	NELAP	0.007	0.050		**167**	mg/L	1	10/13/2023 20:00	213214
Potassium	NELAP	0.040	0.100		**1.76**	mg/L	1	10/13/2023 20:00	213214
Sodium	NELAP	0.018	0.050		**92.1**	mg/L	1	10/13/2023 20:00	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:16	213214
Arsenic	NELAP	0.4	1.0	J	**0.6**	µg/L	5	10/13/2023 14:16	213214
Barium	NELAP	0.7	1.0		**20.0**	µg/L	5	10/13/2023 14:16	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 9:44	213214
Boron	NELAP	9.2	25.0		**32.2**	µg/L	5	10/16/2023 9:44	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:16	213214
Chromium	NELAP	0.7	1.5		**2.9**	µg/L	5	10/13/2023 14:16	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 9:40	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:16	213214
Lithium	*	1.4	3.0		**21.8**	µg/L	5	10/16/2023 9:44	213214
Molybdenum	NELAP	0.6	1.5	J	**1.0**	µg/L	5	10/13/2023 14:16	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:16	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 9:44	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-007
Client Sample ID: APW04
Matrix: GROUNDWATER
Collection Date: 10/10/2023 15:23

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:09	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-008 **Client Sample ID:** APW05

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**14.33**	ft	1	10/10/2023 11:18	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**31**	NTU	1	10/10/2023 11:18	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-134**	mV	1	10/10/2023 11:18	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**988**	µS/cm	1	10/10/2023 11:18	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.1**	°C	1	10/10/2023 11:18	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.60**	mg/L	1	10/10/2023 11:18	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.43**		1	10/10/2023 11:18	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**486**	mg/L	1	10/17/2023 14:17	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:17	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**562**	mg/L	1	10/12/2023 10:50	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10	J	**8**	mg/L	1	10/13/2023 13:31	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.53**	mg/L	1	10/12/2023 13:05	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**46**	mg/L	1	10/13/2023 13:30	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**52.8**	mg/L	1	10/13/2023 20:02	213214
Magnesium	NELAP	0.007	0.050		**27.2**	mg/L	1	10/13/2023 20:02	213214
Potassium	NELAP	0.040	0.100		**1.52**	mg/L	1	10/13/2023 20:02	213214
Sodium	NELAP	0.018	0.050		**130**	mg/L	1	10/13/2023 20:02	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:22	213214
Arsenic	NELAP	0.4	1.0		**32.3**	µg/L	5	10/13/2023 14:22	213214
Barium	NELAP	0.7	1.0		**333**	µg/L	5	10/13/2023 14:22	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 9:51	213214
Boron	NELAP	9.2	25.0		**89.7**	µg/L	5	10/16/2023 9:51	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:22	213214
Chromium	NELAP	0.7	1.5	J	**1.2**	µg/L	5	10/13/2023 14:22	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 9:45	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:22	213214
Lithium	*	1.4	3.0		**9.0**	µg/L	5	10/16/2023 9:51	213214
Molybdenum	NELAP	0.6	1.5		**12.7**	µg/L	5	10/13/2023 14:22	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:22	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 9:51	213214

Laboratory Results

Teklab, Inc.
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http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-008
Client Sample ID: APW05
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:18

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:11	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-009 **Client Sample ID:** APW05S

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 10:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**13.94**	ft	1	10/10/2023 10:42	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**61**	NTU	1	10/10/2023 10:42	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-2**	mV	1	10/10/2023 10:42	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**3800**	µS/cm	1	10/10/2023 10:42	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**16.5**	°C	1	10/10/2023 10:42	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.72**	mg/L	1	10/10/2023 10:42	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**6.66**		1	10/10/2023 10:42	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**558**	mg/L	1	10/17/2023 14:19	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:19	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**3240**	mg/L	1	10/12/2023 10:50	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	307	500		**1700**	mg/L	50	10/13/2023 13:44	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.41**	mg/L	1	10/12/2023 13:07	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**112**	mg/L	5	10/13/2023 13:38	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**373**	mg/L	1	10/13/2023 20:03	213214
Magnesium	NELAP	0.007	0.050		**295**	mg/L	1	10/13/2023 20:03	213214
Potassium	NELAP	0.040	0.100		**2.41**	mg/L	1	10/13/2023 20:03	213214
Sodium	NELAP	0.018	0.050		**252**	mg/L	1	10/13/2023 20:03	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:29	213214
Arsenic	NELAP	0.4	1.0		**1.4**	µg/L	5	10/13/2023 14:29	213214
Barium	NELAP	0.7	1.0		**47.8**	µg/L	5	10/13/2023 14:29	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 9:57	213214
Boron	NELAP	9.2	25.0		**38.0**	µg/L	5	10/16/2023 9:57	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:29	213214
Chromium	NELAP	0.7	1.5		**2.6**	µg/L	5	10/13/2023 14:29	213214
Cobalt	NELAP	0.1	1.0	J	**0.7**	µg/L	5	10/18/2023 9:51	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/16/2023 9:57	213214
Lithium	*	1.4	3.0		**32.8**	µg/L	5	10/16/2023 9:57	213214
Molybdenum	NELAP	0.6	1.5		**3.3**	µg/L	5	10/13/2023 14:29	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:29	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 9:57	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-009
Client Sample ID: APW05S
Matrix: GROUNDWATER
Collection Date: 10/10/2023 10:42

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:18	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-010 **Client Sample ID:** APW06

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 10:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**19.45**	ft	1	10/10/2023 10:07	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**70**	NTU	1	10/10/2023 10:07	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-99**	mV	1	10/10/2023 10:07	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**894**	µS/cm	1	10/10/2023 10:07	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.4**	°C	1	10/10/2023 10:07	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.68**	mg/L	1	10/10/2023 10:07	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.11**		1	10/10/2023 10:07	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**476**	mg/L	1	10/17/2023 14:25	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:25	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**526**	mg/L	1	10/12/2023 10:51	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10	S	**11**	mg/L	1	10/13/2023 13:49	R337770
Matrix spike did not recover within control limits due to matrix interference.									
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.55**	mg/L	1	10/12/2023 13:09	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**23**	mg/L	1	10/13/2023 13:49	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**56.8**	mg/L	1	10/13/2023 19:02	213214
Magnesium	NELAP	0.006	0.050		**25.7**	mg/L	1	10/16/2023 18:07	213214
Potassium	NELAP	0.040	0.100		**1.48**	mg/L	1	10/13/2023 19:02	213214
Sodium	NELAP	0.018	0.050		**115**	mg/L	1	10/13/2023 19:02	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:35	213214
Arsenic	NELAP	0.4	1.0		**8.3**	µg/L	5	10/13/2023 14:35	213214
Barium	NELAP	0.7	1.0		**304**	µg/L	5	10/13/2023 14:35	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 10:03	213214
Boron	NELAP	9.2	25.0		**75.0**	µg/L	5	10/16/2023 10:03	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:35	213214
Chromium	NELAP	0.7	1.5		**< 1.5**	µg/L	5	10/13/2023 14:35	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 9:56	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:35	213214
Lithium	*	1.4	3.0		**10.6**	µg/L	5	10/16/2023 10:03	213214
Molybdenum	NELAP	0.6	1.5		**11.6**	µg/L	5	10/13/2023 14:35	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:35	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 10:03	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-010 **Client Sample ID:** APW06

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 10:07

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:25	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-011 **Client Sample ID:** APW07

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**47.18**	ft	1	10/10/2023 11:06	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**10**	NTU	1	10/10/2023 11:06	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-68**	mV	1	10/10/2023 11:06	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**894**	µS/cm	1	10/10/2023 11:06	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.3**	°C	1	10/10/2023 11:06	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**9.16**	mg/L	1	10/10/2023 11:06	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.62**		1	10/10/2023 11:06	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**512**	mg/L	1	10/17/2023 14:30	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:30	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**630**	mg/L	2.5	10/12/2023 11:10	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**16**	mg/L	1	10/13/2023 14:13	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.42**	mg/L	1	10/12/2023 13:14	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**67**	mg/L	5	10/13/2023 14:18	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**96.2**	mg/L	1	10/13/2023 19:03	213214
Magnesium	NELAP	0.006	0.050		**35.4**	mg/L	1	10/16/2023 18:08	213214
Potassium	NELAP	0.040	0.100		**1.80**	mg/L	1	10/13/2023 19:03	213214
Sodium	NELAP	0.018	0.050		**95.4**	mg/L	1	10/13/2023 19:03	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:41	213214
Arsenic	NELAP	0.4	1.0		**22.5**	µg/L	5	10/13/2023 14:41	213214
Barium	NELAP	0.7	1.0		**808**	µg/L	5	10/13/2023 14:41	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 10:09	213214
Boron	NELAP	9.2	25.0		**68.0**	µg/L	5	10/16/2023 10:09	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:41	213214
Chromium	NELAP	0.7	1.5		**1.7**	µg/L	5	10/13/2023 14:41	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 10:23	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:41	213214
Lithium	*	1.4	3.0	J	**2.5**	µg/L	5	10/16/2023 10:09	213214
Molybdenum	NELAP	0.6	1.5		**3.1**	µg/L	5	10/13/2023 14:41	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:41	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 10:09	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-011
Client Sample ID: APW07
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:27	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-012 **Client Sample ID:** APW08

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 12:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**38.01**	ft	1	10/10/2023 12:15	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**4.2**	NTU	1	10/10/2023 12:15	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-64**	mV	1	10/10/2023 12:15	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**952**	µS/cm	1	10/10/2023 12:15	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.9**	°C	1	10/10/2023 12:15	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.64**	mg/L	1	10/10/2023 12:15	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.42**		1	10/10/2023 12:15	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**532**	mg/L	1	10/17/2023 14:33	R337863
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/17/2023 14:33	R337863
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**615**	mg/L	2.5	10/12/2023 11:10	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**57**	mg/L	5	10/13/2023 14:21	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.48**	mg/L	1	10/12/2023 13:16	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**60**	mg/L	5	10/13/2023 14:21	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**103**	mg/L	1	10/13/2023 19:13	213214
Magnesium	NELAP	0.006	0.050		**41.1**	mg/L	1	10/16/2023 18:17	213214
Potassium	NELAP	0.040	0.100		**1.89**	mg/L	1	10/13/2023 19:13	213214
Sodium	NELAP	0.018	0.050		**87.4**	mg/L	1	10/13/2023 19:13	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 14:47	213214
Arsenic	NELAP	0.4	1.0		**36.6**	µg/L	5	10/13/2023 14:47	213214
Barium	NELAP	0.7	1.0		**777**	µg/L	5	10/13/2023 14:47	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 10:15	213214
Boron	NELAP	9.2	25.0		**71.0**	µg/L	5	10/16/2023 10:15	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 14:47	213214
Chromium	NELAP	0.7	1.5	J	**1.0**	µg/L	5	10/13/2023 14:47	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 10:29	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:47	213214
Lithium	*	1.4	3.0	J	**2.2**	µg/L	5	10/16/2023 10:15	213214
Molybdenum	NELAP	0.6	1.5		**5.8**	µg/L	5	10/13/2023 14:47	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 14:47	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 10:15	213214

Laboratory Results

Teklab, Inc.
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http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-012
Client Sample ID: APW08
Matrix: GROUNDWATER
Collection Date: 10/10/2023 12:15

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:29	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-013 **Client Sample ID:** APW09

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**27.55**	ft	1	10/10/2023 13:45	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**5.9**	NTU	1	10/10/2023 13:45	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-46**	mV	1	10/10/2023 13:45	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**988**	µS/cm	1	10/10/2023 13:45	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.5**	°C	1	10/10/2023 13:45	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.19**	mg/L	1	10/10/2023 13:45	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.61**		1	10/10/2023 13:45	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**482**	mg/L	1	10/18/2023 9:31	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 9:31	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**760**	mg/L	2.5	10/12/2023 11:10	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**32**	mg/L	1	10/13/2023 14:24	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.63**	mg/L	1	10/12/2023 13:27	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**94**	mg/L	10	10/13/2023 14:29	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**69.2**	mg/L	1	10/13/2023 19:14	213214
Magnesium	NELAP	0.006	0.050		**32.7**	mg/L	1	10/16/2023 18:19	213214
Potassium	NELAP	0.040	0.100		**3.43**	mg/L	1	10/13/2023 19:14	213214
Sodium	NELAP	0.018	0.050		**151**	mg/L	1	10/13/2023 19:14	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**1.8**	µg/L	5	10/13/2023 15:18	213214
Arsenic	NELAP	0.4	1.0		**11.4**	µg/L	5	10/13/2023 15:18	213214
Barium	NELAP	0.7	1.0		**406**	µg/L	5	10/13/2023 15:18	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 10:46	213214
Boron	NELAP	9.2	25.0		**78.0**	µg/L	5	10/16/2023 10:46	213214
Cadmium	NELAP	0.2	1.0	J	**0.3**	µg/L	5	10/13/2023 15:18	213214
Chromium	NELAP	0.7	1.5		**3.3**	µg/L	5	10/13/2023 15:18	213214
Cobalt	NELAP	0.1	1.0	J	**0.5**	µg/L	5	10/18/2023 10:34	213214
Lead	NELAP	0.6	1.0	J	**0.8**	µg/L	5	10/13/2023 15:18	213214
Lithium	*	1.4	3.0		**6.6**	µg/L	5	10/16/2023 10:46	213214
Molybdenum	NELAP	0.6	1.5		**16.5**	µg/L	5	10/13/2023 15:18	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:18	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 10:46	213214

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-013 **Client Sample ID:** APW09

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/18/2023 10:31	213366

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-014 **Client Sample ID:** APW10

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**18.79**	ft	1	10/10/2023 15:05	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.0**	NTU	1	10/10/2023 15:05	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**3**	mV	1	10/10/2023 15:05	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1280**	µS/cm	1	10/10/2023 15:05	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.2**	°C	1	10/10/2023 15:05	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**2.77**	mg/L	1	10/10/2023 15:05	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.26**		1	10/10/2023 15:05	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**452**	mg/L	1	10/18/2023 9:42	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 9:42	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1050**	mg/L	1	10/12/2023 11:10	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**399**	mg/L	10	10/13/2023 14:37	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.34**	mg/L	1	10/12/2023 13:29	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**43**	mg/L	1	10/13/2023 14:32	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**146**	mg/L	1	10/13/2023 19:16	213214
Magnesium	NELAP	0.006	0.050		**65.7**	mg/L	1	10/16/2023 18:20	213214
Potassium	NELAP	0.040	0.100		**1.66**	mg/L	1	10/13/2023 19:16	213214
Sodium	NELAP	0.018	0.050		**124**	mg/L	1	10/13/2023 19:16	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 15:24	213214
Arsenic	NELAP	0.4	1.0		**12.0**	µg/L	5	10/13/2023 15:24	213214
Barium	NELAP	0.7	1.0		**39.7**	µg/L	5	10/13/2023 15:24	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 10:52	213214
Boron	NELAP	9.2	25.0		**62.6**	µg/L	5	10/16/2023 10:52	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 15:24	213214
Chromium	NELAP	0.7	1.5	J	**0.9**	µg/L	5	10/13/2023 15:24	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 10:40	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:24	213214
Lithium	*	1.4	3.0		**18.2**	µg/L	5	10/16/2023 10:52	213214
Molybdenum	NELAP	0.6	1.5		**11.2**	µg/L	5	10/13/2023 15:24	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:24	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 10:52	213214

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-014 **Client Sample ID:** APW10

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 15:05

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 9:38	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-015 **Client Sample ID:** APW11

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 15:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**25.07**	ft	1	10/10/2023 15:02	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**54**	NTU	1	10/10/2023 15:02	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-117**	mV	1	10/10/2023 15:02	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1310**	µS/cm	1	10/10/2023 15:02	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.6**	°C	1	10/10/2023 15:02	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.63**	mg/L	1	10/10/2023 15:02	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.50**		1	10/10/2023 15:02	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**426**	mg/L	1	10/18/2023 9:49	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 9:49	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**835**	mg/L	2.5	10/12/2023 11:11	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**277**	mg/L	10	10/13/2023 14:45	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.37**	mg/L	1	10/12/2023 13:31	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**26**	mg/L	1	10/13/2023 14:40	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**126**	mg/L	1	10/13/2023 19:18	213214
Magnesium	NELAP	0.006	0.050		**53.6**	mg/L	1	10/16/2023 18:22	213214
Potassium	NELAP	0.040	0.100		**1.62**	mg/L	1	10/13/2023 19:18	213214
Sodium	NELAP	0.018	0.050		**92.1**	mg/L	1	10/13/2023 19:18	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 15:30	213214
Arsenic	NELAP	0.4	1.0		**4.9**	µg/L	5	10/13/2023 15:30	213214
Barium	NELAP	0.7	1.0		**44.8**	µg/L	5	10/13/2023 15:30	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 10:58	213214
Boron	NELAP	9.2	25.0		**57.8**	µg/L	5	10/16/2023 10:58	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 15:30	213214
Chromium	NELAP	0.7	1.5	J	**1.4**	µg/L	5	10/13/2023 15:30	213214
Cobalt	NELAP	0.1	1.0	J	**0.3**	µg/L	5	10/18/2023 10:45	213214
Lead	NELAP	0.6	1.0	J	**0.8**	µg/L	5	10/13/2023 15:30	213214
Lithium	*	1.4	3.0		**20.1**	µg/L	5	10/16/2023 10:58	213214
Molybdenum	NELAP	0.6	1.5		**5.1**	µg/L	5	10/13/2023 15:30	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:30	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 10:58	213214

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-015 **Client Sample ID:** APW11

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 15:02

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 9:40	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-016 **Client Sample ID:** APW12

Matrix: GROUNDWATER **Collection Date:** 10/11/2023 9:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**16.13**	ft	1	10/11/2023 9:31	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**11**	NTU	1	10/11/2023 9:31	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**6**	mV	1	10/11/2023 9:31	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**2190**	µS/cm	1	10/11/2023 9:31	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**14.6**	°C	1	10/11/2023 9:31	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.71**	mg/L	1	10/11/2023 9:31	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**6.11**		1	10/11/2023 9:31	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**656**	mg/L	1	10/16/2023 14:54	R337809
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/16/2023 14:54	R337809
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**1740**	mg/L	1	10/13/2023 14:50	R337808
SW-846 9036 (TOTAL)									
Sulfate	NELAP	123	200		**712**	mg/L	20	10/16/2023 23:12	R337819
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.22**	mg/L	1	10/16/2023 11:28	R337786
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**31**	mg/L	5	10/16/2023 23:07	R337841
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**275**	mg/L	1	10/18/2023 17:54	213274
Magnesium	NELAP	0.006	0.050		**127**	mg/L	1	10/18/2023 17:54	213274
Potassium	NELAP	0.040	0.100		**1.29**	mg/L	1	10/18/2023 17:54	213274
Sodium	NELAP	0.018	0.050		**151**	mg/L	1	10/18/2023 17:54	213274
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/16/2023 14:09	213274
Arsenic	NELAP	0.4	1.0	J	**0.8**	µg/L	5	10/16/2023 14:09	213274
Barium	NELAP	0.7	1.0		**34.5**	µg/L	5	10/16/2023 14:09	213274
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 14:09	213274
Boron	NELAP	9.2	25.0		**724**	µg/L	5	10/16/2023 14:09	213274
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 14:09	213274
Chromium	NELAP	0.7	1.5	J	**0.8**	µg/L	5	10/16/2023 14:09	213274
Cobalt	NELAP	0.1	1.0		**1.2**	µg/L	5	10/16/2023 14:09	213274
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/16/2023 14:09	213274
Lithium	*	1.4	3.0		**36.5**	µg/L	5	10/16/2023 14:09	213274
Molybdenum	NELAP	0.6	1.5		**< 1.5**	µg/L	5	10/16/2023 14:09	213274
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/16/2023 14:09	213274
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 14:09	213274

Laboratory Results

Teklab, Inc.
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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-016 **Client Sample ID:** APW12

Matrix: GROUNDWATER **Collection Date:** 10/11/2023 9:31

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 9:47	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-017 **Client Sample ID:** APW13

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 14:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**33.06**	ft	1	10/10/2023 14:44	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**1.3**	NTU	1	10/10/2023 14:44	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-31**	mV	1	10/10/2023 14:44	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1190**	µS/cm	1	10/10/2023 14:44	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.8**	°C	1	10/10/2023 14:44	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.29**	mg/L	1	10/10/2023 14:44	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.19**		1	10/10/2023 14:44	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**522**	mg/L	1	10/18/2023 9:57	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 9:57	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**936**	mg/L	1	10/12/2023 11:11	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**234**	mg/L	10	10/13/2023 15:06	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.44**	mg/L	1	10/12/2023 13:33	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	8		**53**	mg/L	2	10/13/2023 14:48	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**120**	mg/L	1	10/13/2023 19:19	213214
Magnesium	NELAP	0.006	0.050		**57.5**	mg/L	1	10/16/2023 18:24	213214
Potassium	NELAP	0.040	0.100		**1.93**	mg/L	1	10/13/2023 19:19	213214
Sodium	NELAP	0.018	0.050		**124**	mg/L	1	10/13/2023 19:19	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 15:36	213214
Arsenic	NELAP	0.4	1.0		**4.4**	µg/L	5	10/13/2023 15:36	213214
Barium	NELAP	0.7	1.0		**64.2**	µg/L	5	10/13/2023 15:36	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 11:05	213214
Boron	NELAP	9.2	25.0		**102**	µg/L	5	10/16/2023 11:05	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 15:36	213214
Chromium	NELAP	0.7	1.5		**< 1.5**	µg/L	5	10/13/2023 15:36	213214
Cobalt	NELAP	0.1	1.0		**< 1.0**	µg/L	5	10/18/2023 10:51	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:36	213214
Lithium	*	1.4	3.0		**24.0**	µg/L	5	10/16/2023 11:05	213214
Molybdenum	NELAP	0.6	1.5		**8.7**	µg/L	5	10/13/2023 15:36	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:36	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 11:05	213214

Laboratory Results

Teklab, Inc.
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Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-017
Client Sample ID: APW13
Matrix: GROUNDWATER
Collection Date: 10/10/2023 14:44

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 9:49	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-018 **Client Sample ID:** APW14

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 14:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**21.73**	ft	1	10/10/2023 14:21	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.0**	NTU	1	10/10/2023 14:21	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-68**	mV	1	10/10/2023 14:21	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1280**	µS/cm	1	10/10/2023 14:21	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.8**	°C	1	10/10/2023 14:21	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.19**	mg/L	1	10/10/2023 14:21	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.31**		1	10/10/2023 14:21	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**484**	mg/L	1	10/18/2023 10:04	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 10:04	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**990**	mg/L	2.5	10/12/2023 11:44	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	61	100		**358**	mg/L	10	10/13/2023 15:14	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.33**	mg/L	1	10/12/2023 13:35	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**41**	mg/L	1	10/13/2023 15:09	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**138**	mg/L	1	10/13/2023 19:21	213214
Magnesium	NELAP	0.006	0.050		**63.1**	mg/L	1	10/16/2023 18:25	213214
Potassium	NELAP	0.040	0.100		**1.92**	mg/L	1	10/13/2023 19:21	213214
Sodium	NELAP	0.018	0.050		**133**	mg/L	1	10/13/2023 19:21	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 15:42	213214
Arsenic	NELAP	0.4	1.0		**9.4**	µg/L	5	10/13/2023 15:42	213214
Barium	NELAP	0.7	1.0		**75.8**	µg/L	5	10/13/2023 15:42	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 11:11	213214
Boron	NELAP	9.2	25.0		**88.8**	µg/L	5	10/16/2023 11:11	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 15:42	213214
Chromium	NELAP	0.7	1.5	J	**1.5**	µg/L	5	10/13/2023 15:42	213214
Cobalt	NELAP	0.1	1.0	J	**0.3**	µg/L	5	10/18/2023 10:56	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:42	213214
Lithium	*	1.4	3.0		**20.5**	µg/L	5	10/16/2023 11:11	213214
Molybdenum	NELAP	0.6	1.5		**5.8**	µg/L	5	10/13/2023 15:42	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:42	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 11:11	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-018
Client Sample ID: APW14
Matrix: GROUNDWATER
Collection Date: 10/10/2023 14:21

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 9:56	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-019 **Client Sample ID:** APW15

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 13:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**21.00**	ft	1	10/10/2023 13:16	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**56**	NTU	1	10/10/2023 13:16	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-104**	mV	1	10/10/2023 13:16	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1700**	µS/cm	1	10/10/2023 13:16	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**15.0**	°C	1	10/10/2023 13:16	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**< 0**	mg/L	1	10/10/2023 13:16	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.13**		1	10/10/2023 13:16	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**760**	mg/L	1	10/18/2023 10:11	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 10:11	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50		**1140**	mg/L	2.5	10/12/2023 11:45	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**12**	mg/L	1	10/13/2023 15:17	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.48**	mg/L	1	10/12/2023 13:37	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**227**	mg/L	10	10/13/2023 15:22	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**96.0**	mg/L	1	10/13/2023 19:22	213214
Magnesium	NELAP	0.006	0.050		**37.4**	mg/L	1	10/16/2023 18:27	213214
Potassium	NELAP	0.040	0.100		**3.67**	mg/L	1	10/13/2023 19:22	213214
Sodium	NELAP	0.018	0.050		**301**	mg/L	1	10/13/2023 19:22	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 15:49	213214
Arsenic	NELAP	0.4	1.0		**31.9**	µg/L	5	10/13/2023 15:49	213214
Barium	NELAP	0.7	1.0		**708**	µg/L	5	10/13/2023 15:49	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 11:17	213214
Boron	NELAP	9.2	25.0		**123**	µg/L	5	10/16/2023 11:17	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 15:49	213214
Chromium	NELAP	0.7	1.5		**7.1**	µg/L	5	10/13/2023 15:49	213214
Cobalt	NELAP	0.1	1.0		**1.6**	µg/L	5	10/18/2023 11:39	213214
Lead	NELAP	0.6	1.0		**2.7**	µg/L	5	10/13/2023 15:49	213214
Lithium	*	1.4	3.0		**7.3**	µg/L	5	10/16/2023 11:17	213214
Molybdenum	NELAP	0.6	1.5		**7.3**	µg/L	5	10/13/2023 15:49	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:49	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 11:17	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
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Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-019
Client Sample ID: APW15
Matrix: GROUNDWATER
Collection Date: 10/10/2023 13:16

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 9:58	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-020 **Client Sample ID:** APW16

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 12:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**40.61**	ft	1	10/10/2023 12:39	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**1.4**	NTU	1	10/10/2023 12:39	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-70**	mV	1	10/10/2023 12:39	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**1090**	µS/cm	1	10/10/2023 12:39	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.2**	°C	1	10/10/2023 12:39	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.25**	mg/L	1	10/10/2023 12:39	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.45**		1	10/10/2023 12:39	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**656**	mg/L	1	10/18/2023 10:19	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 10:19	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**768**	mg/L	1	10/12/2023 11:46	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10	J	**8**	mg/L	1	10/13/2023 15:25	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.77**	mg/L	1	10/12/2023 13:39	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**69**	mg/L	5	10/13/2023 15:30	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**92.9**	mg/L	1	10/13/2023 19:24	213214
Magnesium	NELAP	0.006	0.050		**39.6**	mg/L	1	10/16/2023 18:28	213214
Potassium	NELAP	0.040	0.100		**2.00**	mg/L	1	10/13/2023 19:24	213214
Sodium	NELAP	0.018	0.050		**138**	mg/L	1	10/13/2023 19:24	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 15:55	213214
Arsenic	NELAP	0.4	1.0		**25.3**	µg/L	5	10/13/2023 15:55	213214
Barium	NELAP	0.7	1.0		**597**	µg/L	5	10/13/2023 15:55	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 11:23	213214
Boron	NELAP	9.2	25.0		**126**	µg/L	5	10/16/2023 11:23	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 15:55	213214
Chromium	NELAP	0.7	1.5	J	**0.9**	µg/L	5	10/13/2023 15:55	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 11:45	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:55	213214
Lithium	*	1.4	3.0	J	**2.9**	µg/L	5	10/16/2023 11:23	213214
Molybdenum	NELAP	0.6	1.5		**< 1.5**	µg/L	5	10/13/2023 15:55	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 15:55	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 11:23	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-020
Client Sample ID: APW16
Matrix: GROUNDWATER
Collection Date: 10/10/2023 12:39

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 10:00	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-021 **Client Sample ID:** APW17

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**41.58**	ft	1	10/10/2023 11:26	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**7.5**	NTU	1	10/10/2023 11:26	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-73**	mV	1	10/10/2023 11:26	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**993**	µS/cm	1	10/10/2023 11:26	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.7**	°C	1	10/10/2023 11:26	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.27**	mg/L	1	10/10/2023 11:26	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**7.49**		1	10/10/2023 11:26	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**560**	mg/L	1	10/18/2023 10:26	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 10:26	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**692**	mg/L	1	10/12/2023 12:10	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	31	50		**64**	mg/L	5	10/13/2023 15:33	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.54**	mg/L	1	10/12/2023 13:42	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	2	20		**59**	mg/L	5	10/13/2023 15:33	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**107**	mg/L	1	10/13/2023 19:26	213214
Magnesium	NELAP	0.006	0.050		**42.3**	mg/L	1	10/16/2023 18:30	213214
Potassium	NELAP	0.040	0.100		**1.90**	mg/L	1	10/13/2023 19:26	213214
Sodium	NELAP	0.018	0.050		**89.1**	mg/L	1	10/13/2023 19:26	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 16:01	213214
Arsenic	NELAP	0.4	1.0		**32.0**	µg/L	5	10/13/2023 16:01	213214
Barium	NELAP	0.7	1.0		**741**	µg/L	5	10/13/2023 16:01	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 11:29	213214
Boron	NELAP	9.2	25.0		**78.8**	µg/L	5	10/16/2023 11:29	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 16:01	213214
Chromium	NELAP	0.7	1.5	J	**1.0**	µg/L	5	10/13/2023 16:01	213214
Cobalt	NELAP	0.1	1.0	J	**0.3**	µg/L	5	10/18/2023 11:50	213214
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 16:01	213214
Lithium	*	1.4	3.0	J	**2.4**	µg/L	5	10/16/2023 11:29	213214
Molybdenum	NELAP	0.6	1.5		**17.2**	µg/L	5	10/13/2023 16:01	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 16:01	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 11:29	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-021
Client Sample ID: APW17
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:26

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 10:03	213442

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-022 **Client Sample ID:** APW18

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**52.08**	ft	1	10/10/2023 10:45	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**8.5**	NTU	1	10/10/2023 10:45	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**-100**	mV	1	10/10/2023 10:45	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**866**	µS/cm	1	10/10/2023 10:45	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**13.5**	°C	1	10/10/2023 10:45	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.22**	mg/L	1	10/10/2023 10:45	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**8.05**		1	10/10/2023 10:45	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**530**	mg/L	1	10/18/2023 10:40	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 10:40	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**614**	mg/L	1	10/12/2023 12:10	R337735
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**49**	mg/L	1	10/13/2023 15:36	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.59**	mg/L	1	10/12/2023 13:59	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**23**	mg/L	1	10/13/2023 15:36	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**75.5**	mg/L	1	10/13/2023 19:35	213214
Magnesium	NELAP	0.007	0.050		**37.6**	mg/L	1	10/13/2023 19:35	213214
Potassium	NELAP	0.040	0.100		**2.34**	mg/L	1	10/13/2023 19:35	213214
Sodium	NELAP	0.018	0.050		**104**	mg/L	1	10/13/2023 19:35	213214
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 16:07	213214
Arsenic	NELAP	0.4	1.0		**2.6**	µg/L	5	10/13/2023 16:07	213214
Barium	NELAP	0.7	1.0		**443**	µg/L	5	10/13/2023 16:07	213214
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 11:35	213214
Boron	NELAP	9.2	25.0		**97.1**	µg/L	5	10/16/2023 11:35	213214
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 16:07	213214
Chromium	NELAP	0.7	1.5	J	**1.0**	µg/L	5	10/13/2023 16:07	213214
Cobalt	NELAP	0.1	1.0	J	**0.2**	µg/L	5	10/18/2023 11:56	213214
Lead	NELAP	0.6	1.0		**3.3**	µg/L	5	10/13/2023 16:07	213214
Lithium	*	1.4	3.0		**5.2**	µg/L	5	10/16/2023 11:35	213214
Molybdenum	NELAP	0.6	1.5		**4.3**	µg/L	5	10/13/2023 16:07	213214
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 16:07	213214
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 11:35	213214

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-022
Client Sample ID: APW18
Matrix: GROUNDWATER
Collection Date: 10/10/2023 10:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 10:05	213442

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-092
Client Sample ID: SG02
Matrix: GROUNDWATER
Collection Date: 10/09/2023 13:06

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**3.33**	ft	1	10/09/2023 13:06	R338100

Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23
Lab ID: 23091794-099
Client Sample ID: XSG01
Matrix: GROUNDWATER
Collection Date: 10/09/2023 12:48

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**6.04**	ft	1	10/09/2023 12:48	R338100

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-100 **Client Sample ID:** Field Blank

Matrix: AQUEOUS **Collection Date:** 10/12/2023 13:45

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**2**	mg/L	1	10/13/2023 13:55	R337721
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/13/2023 13:55	R337721
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	16	20		**26**	mg/L	1	10/17/2023 10:55	R337912
SW-846 9036 (TOTAL)									
Sulfate	NELAP	6	10		**< 10**	mg/L	1	10/17/2023 0:38	R337819
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**< 0.10**	mg/L	1	10/16/2023 10:46	R337786
SW-846 9251 (TOTAL)									
Chloride	NELAP	1	4		**< 4**	mg/L	1	10/17/2023 0:37	R337841
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**< 0.100**	mg/L	1	10/18/2023 18:04	213274
Magnesium	NELAP	0.006	0.050		**< 0.050**	mg/L	1	10/18/2023 18:04	213274
Potassium	NELAP	0.040	0.100		**< 0.100**	mg/L	1	10/18/2023 18:04	213274
Sodium	NELAP	0.018	0.050	J	**0.022**	mg/L	1	10/18/2023 18:04	213274
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Arsenic	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Barium	NELAP	0.7	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Boron	NELAP	9.2	25.0		**< 25.0**	µg/L	5	10/16/2023 15:36	213274
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Chromium	NELAP	0.7	1.5		**< 1.5**	µg/L	5	10/16/2023 15:36	213274
Cobalt	NELAP	0.1	1.0		**< 1.0**	µg/L	5	10/17/2023 23:48	213274
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Lithium	*	1.4	3.0		**< 3.0**	µg/L	5	10/16/2023 15:36	213274
Molybdenum	NELAP	0.6	1.5		**< 1.5**	µg/L	5	10/16/2023 15:36	213274
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/16/2023 15:36	213274
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/16/2023 15:36	213274
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 13:51	213444

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-102 **Client Sample ID:** APW02 Duplicate

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS									
Depth to water from measuring point	*	0	0		**8.14**	ft	1	10/10/2023 11:56	R338100
STANDARD METHODS 2130 B FIELD									
Turbidity	*	1.0	1.0		**6.4**	NTU	1	10/10/2023 11:56	R338100
STANDARD METHODS 18TH ED. 2580 B FIELD									
Oxidation-Reduction Potential	*	-300	-300		**11**	mV	1	10/10/2023 11:56	R338100
STANDARD METHODS 2510 B FIELD									
Spec. Conductance, Field	*	0	0		**4390**	µS/cm	1	10/10/2023 11:56	R338100
STANDARD METHODS 2550 B FIELD									
Temperature	*	0	0		**17.3**	°C	1	10/10/2023 11:56	R338100
STANDARD METHODS 4500-O G FIELD									
Oxygen, Dissolved	*	0	0		**0.28**	mg/L	1	10/10/2023 11:56	R338100
SW-846 9040B FIELD									
pH	*	0	1.00		**6.68**		1	10/10/2023 11:56	R338100
STANDARD METHODS 2320 B (TOTAL) 1997, 2011									
Alkalinity, Bicarbonate (as CaCO3)	NELAP	0	0		**638**	mg/L	1	10/18/2023 12:00	R337915
STANDARD METHODS 2320 B 1997, 2011									
Alkalinity, Carbonate (as CaCO3)	NELAP	0	0		**0**	mg/L	1	10/18/2023 12:00	R337915
STANDARD METHODS 2540 C (TOTAL) 1997, 2011									
Total Dissolved Solids	NELAP	40	50	H	**4990**	mg/L	2.5	10/26/2023 14:34	R338395
Sample required re-analysis out of hold time.									
SW-846 9036 (TOTAL)									
Sulfate	NELAP	614	1000		**2920**	mg/L	100	10/13/2023 16:37	R337770
SW-846 9214 (TOTAL)									
Fluoride	NELAP	0.04	0.10		**0.20**	mg/L	1	10/12/2023 14:17	R337650
SW-846 9251 (TOTAL)									
Chloride	NELAP	5	40		**95**	mg/L	10	10/13/2023 16:32	R337794
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)									
Calcium	NELAP	0.035	0.100		**502**	mg/L	1	10/13/2023 17:23	213222
Magnesium	NELAP	0.006	0.050		**463**	mg/L	1	10/13/2023 17:23	213222
Potassium	NELAP	0.040	0.100		**7.16**	mg/L	1	10/13/2023 17:23	213222
Sodium	NELAP	0.018	0.050		**443**	mg/L	1	10/13/2023 17:23	213222
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)									
Antimony	NELAP	0.4	1.0		**< 1.0**	µg/L	5	10/13/2023 18:29	213222
Arsenic	NELAP	0.4	1.0	J	**0.7**	µg/L	5	10/13/2023 18:29	213222
Barium	NELAP	0.7	1.0		**12.4**	µg/L	5	10/13/2023 18:29	213222
Beryllium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 18:29	213222
Boron	NELAP	9.2	25.0		**137**	µg/L	5	10/13/2023 18:29	213222
Cadmium	NELAP	0.2	1.0		**< 1.0**	µg/L	5	10/13/2023 18:29	213222
Chromium	NELAP	0.7	1.5	J	**1.0**	µg/L	5	10/13/2023 18:29	213222
Cobalt	NELAP	0.1	1.0	J	**0.5**	µg/L	5	10/16/2023 12:43	213222
Lead	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 18:29	213222
Lithium	*	1.4	3.0		**113**	µg/L	5	10/16/2023 12:43	213222
Molybdenum	NELAP	0.6	1.5	J	**1.5**	µg/L	5	10/13/2023 18:29	213222
Selenium	NELAP	0.6	1.0		**< 1.0**	µg/L	5	10/13/2023 18:29	213222
Thallium	NELAP	1.0	2.0		**< 2.0**	µg/L	5	10/13/2023 18:29	213222

Teklab, Inc. Environmental Laboratory

Laboratory Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

Lab ID: 23091794-102 **Client Sample ID:** APW02 Duplicate

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:56

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 7470A (TOTAL)									
Mercury	NELAP	0.06	0.20		**< 0.20**	µg/L	1	10/19/2023 13:58	213444

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 2510 B FIELD

Batch R338100 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338100-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.0	90	110	10/10/2023

Batch R338100 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338100-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1420**	1412	0	100.4	90	110	10/11/2023

Batch R338100 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338100-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	99.9	90	110	10/12/2023

Batch R338100 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338100-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.1	90	110	10/10/2023

Batch R338100 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338100-5

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.0	90	110	10/11/2023

Batch R338100 **SampType:** LCS Units **µS/cm**
SampID: LCS-R338100-6

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Spec. Conductance, Field	*	0		**1410**	1412	0	100.1	90	110	10/12/2023

SW-846 9040B FIELD

Batch R338100 **SampType:** LCS Units
SampID: LCS-R338100-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.01**	7.000	0	100.1	98.57	101.4	10/10/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9040B FIELD

Batch R338100 **SampType:** LCS Units

SampID: LCS-R338100-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	10/11/2023

Batch R338100 **SampType:** LCS Units

SampID: LCS-R338100-3

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.02**	7.000	0	100.3	98.57	101.4	10/12/2023

Batch R338100 **SampType:** LCS Units

SampID: LCS-R338100-4

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.01**	7.000	0	100.1	98.57	101.4	10/10/2023

Batch R338100 **SampType:** LCS Units

SampID: LCS-R338100-6

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
pH	*	1.00		**7.06**	7.000	0	100.9	98.57	101.4	10/12/2023

EPA 600 350.1 (DISSOLVED)

Batch R337718 **SampType:** MS Units **mg/L**

SampID: 23091794-004EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10	E	**6.80**	2.000	4.927	93.6	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23091794-004EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10	E	**6.89**	2.000	4.927	98.4	6.798	1.40	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**

SampID: 23100805-003EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.92**	2.000	0.08500	91.6	90	110	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

EPA 600 350.1 (DISSOLVED)

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100805-003EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.90**	2.000	0.08500	90.8	1.917	0.89	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**
SampID: 23100942-003EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.08**	2.000	0.2160	93.2	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100942-003EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.06**	2.000	0.2160	92.4	2.079	0.68	10/13/2023

Batch R337782 **SampType:** MS Units **mg/L**
SampID: 23091794-002EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.50		**16.1**	10.00	6.729	94.1	90	110	10/16/2023

Batch R337782 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-002EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.50		**16.1**	10.00	6.729	93.3	16.14	0.52	10/16/2023

Batch R337782 **SampType:** MS Units **mg/L**
SampID: 23091794-003EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.50		**14.9**	10.00	5.058	98.0	90	110	10/16/2023

Batch R337782 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-003EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.50		**14.9**	10.00	5.058	98.0	14.85	0.02	10/16/2023

Batch R337782 **SampType:** MS Units **mg/L**
SampID: 23091794-027EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.50		**9.92**	10.00	0.5480	93.8	90	110	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

EPA 600 350.1 (DISSOLVED)

Batch R337782 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23091794-027EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.50		**9.96**	10.00	0.5480	94.1	9.924	0.36	10/16/2023

EPA 600 350.1 (TOTAL)

Batch R337718 **SampType:** MBLK Units **mg/L**

SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**< 0.10**	0.0270	0	0	-100	100	10/13/2023

Batch R337718 **SampType:** LCS Units **mg/L**

SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.00**	1.000	0	100.4	90	110	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**

SampID: 23100664-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.90**	2.000	0	94.8	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23100664-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.91**	2.000	0	95.6	1.897	0.79	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**

SampID: 23100810-007BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.89**	2.000	0	94.7	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23100810-007BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.91**	2.000	0	95.4	1.894	0.74	10/13/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

EPA 600 350.1 (TOTAL)

Batch R337718 **SampType:** MS Units **mg/L**
SampID: 23100839-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.06**	2.000	0.2120	92.4	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100839-002CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.07**	2.000	0.2120	93.1	2.061	0.63	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**
SampID: 23100873-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10	S	**1.85**	2.000	0.06000	89.6	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100873-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.89**	2.000	0.06000	91.4	1.852	1.93	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**
SampID: 23100938-001EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.97**	2.000	0.06800	94.9	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100938-001EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.94**	2.000	0.06800	93.6	1.966	1.38	10/13/2023

Batch R337718 **SampType:** MS Units **mg/L**
SampID: 23101006-002CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.00**	2.000	0.1650	92.0	90	110	10/13/2023

Batch R337718 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101006-002CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**2.02**	2.000	0.1650	93.0	2.004	0.99	10/13/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23

EPA 600 350.1 (TOTAL)

Batch R337782 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**< 0.10**	0.0270	0	0	-100	100	10/16/2023

Batch R337782 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**0.99**	1.000	0	98.7	90	110	10/16/2023

Batch R337782 **SampType:** MS Units **mg/L**
SampID: 23101137-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.91**	2.000	0.06300	92.6	90	110	10/16/2023

Batch R337782 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101137-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Ammonia (as N)		0.10		**1.94**	2.000	0.06300	93.8	1.914	1.25	10/16/2023

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337735 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/12/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/12/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/12/2023

Batch R337735 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**948**	1000	0	94.8	90	110	10/12/2023
Total Dissolved Solids		20		**928**	1000	0	92.8	90	110	10/12/2023

Batch R337735 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091794-020ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**760**				768.0	1.05	10/12/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337735 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100880-002ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**368**				362.0	1.64	10/12/2023

Batch R337808 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/13/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/13/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/13/2023

Batch R337808 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**936**	1000	0	93.6	90	110	10/13/2023
Total Dissolved Solids		20		**942**	1000	0	94.2	90	110	10/13/2023
Total Dissolved Solids		20		**940**	1000	0	94.0	90	110	10/13/2023

Batch R337808 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091794-003ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**742**				732.0	1.36	10/13/2023

Batch R337808 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091794-004ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**884**				902.0	2.02	10/13/2023

Batch R337808 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100942-002BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**528**				550.0	4.08	10/13/2023

Batch R337808 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100991-005ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**924**				908.0	1.75	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337858 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/16/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/16/2023

Batch R337858 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**952**	1000	0	95.2	90	110	10/16/2023
Total Dissolved Solids		20		**920**	1000	0	92.0	90	110	10/16/2023

Batch R337858 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091794-040ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		**3600**				3545	1.54	10/16/2023

Batch R337858 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100935-003ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**530**				530.0	0.00	10/16/2023

Batch R337912 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/17/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/17/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/17/2023

Batch R337912 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**984**	1000	0	98.4	90	110	10/17/2023
Total Dissolved Solids		20		**952**	1000	0	95.2	90	110	10/17/2023
Total Dissolved Solids		20		**964**	1000	0	96.4	90	110	10/17/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R337912 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091794-035ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**536**				548.0	2.21	10/17/2023

Batch R337912 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101026-004ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**370**				358.0	3.30	10/17/2023

Batch R337912 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101248-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		50		**415**				380.0	8.81	10/17/2023

Batch R338395 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/26/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/26/2023

Batch R338395 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**964**	1000	0	96.4	90	110	10/26/2023
Total Dissolved Solids		20		**976**	1000	0	97.6	90	110	10/26/2023

Batch R338395 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100903-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**318**				308.0	3.19	10/26/2023

Batch R338395 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100903-002ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**188**				204.0	8.16	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338465 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2023
Total Dissolved Solids		20		**< 20**	16.00	0	0	-100	100	10/27/2023

Batch R338465 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		**964**	1000	0	96.4	90	110	10/27/2023
Total Dissolved Solids		20		**954**	1000	0	95.4	90	110	10/27/2023
Total Dissolved Solids		20		**964**	1000	0	96.4	90	110	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23091794-098ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		200	H	**13600**				14040	3.33	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100902-003ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**638**				624.0	2.22	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100903-006ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**610**				618.0	1.30	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23100903-042ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**290**				286.0	1.39	10/27/2023

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101972-006ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**314**				320.0	1.89	10/27/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch R338465 **SampType:** DUP Units **mg/L** RPD Limit: **10**

SampID: 23102042-002BDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Dissolved Solids		20		**556**				584.0	4.91	10/27/2023

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R337684 **SampType:** MS Units **mg/L**

SampID: 23091794-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.48**	0.5000	0	97.0	85	115	10/13/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23091794-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	97.6	0.4850	0.62	10/13/2023

Batch R337684 **SampType:** MS Units **mg/L**

SampID: 23091794-027BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.4	85	115	10/13/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23091794-027BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0	101.6	0.5070	0.20	10/13/2023

Batch R337684 **SampType:** MS Units **mg/L**

SampID: 23091794-052BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.45**	0.5000	0	89.2	85	115	10/13/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23091794-052BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.44**	0.5000	0	88.2	0.4460	1.13	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R337684 **SampType:** MS Units **mg/L**
SampID: 23091794-101BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.48**	0.5000	0	97.0	85	115	10/13/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-101BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.49**	0.5000	0	97.2	0.4850	0.21	10/13/2023

Batch R337684 **SampType:** MS Units **mg/L**
SampID: 23100942-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.52**	0.5000	0	104.2	85	115	10/12/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100942-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.52**	0.5000	0	104.6	0.5210	0.38	10/12/2023

Batch R337684 **SampType:** MS Units **mg/L**
SampID: 23100942-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.52**	0.5000	0	103.8	85	115	10/12/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100942-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.52**	0.5000	0	104.8	0.5190	0.96	10/12/2023

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R337684 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	10/12/2023
Nitrogen, Nitrite (as N)		0.05		**< 0.05**	0.0250	0	0	-100	100	10/12/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

Batch R337684 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213161

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)	*	0.05		**< 0.05**	0.0250	0	0	-100	100	10/12/2023

Batch R337684 **SampType:** MBLK Units **mg/Kg**
SampID: MBLK-231011

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.50		**< 0.50**	0.0250	0	0	-100	100	10/12/2023

Batch R337684 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.25		**1.18**	1.250	0	94.8	90	110	10/12/2023
Nitrogen, Nitrite (as N)		0.25		**1.18**	1.250	0	94.8	90	110	10/12/2023

Batch R337684 **SampType:** MS Units **mg/L**
SampID: 23091794-090AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.51**	0.5000	0.006000	100.2	85	115	10/13/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-090AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.52**	0.5000	0.006000	102.0	0.5070	1.76	10/13/2023

Batch R337684 **SampType:** MS Units **mg/L**
SampID: 23101003-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	99.8	85	115	10/12/2023

Batch R337684 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101003-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		**0.50**	0.5000	0	99.6	0.4990	0.20	10/12/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R337689 **SampType:** MS Units **mg/L**
SampID: 23091794-052BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.239**	0.2500	0	95.6	85	115	10/13/2023

Batch R337689 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-052BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.242**	0.2500	0	96.8	0.2390	1.25	10/13/2023

Batch R337689 **SampType:** MS Units **mg/L**
SampID: 23091794-059BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.249**	0.2500	0.01200	94.8	85	115	10/13/2023

Batch R337689 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-059BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.246**	0.2500	0.01200	93.6	0.2490	1.21	10/13/2023

Batch R337689 **SampType:** MS Units **mg/L**
SampID: 23091794-088BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.239**	0.2500	0.01900	88.0	85	115	10/13/2023

Batch R337689 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-088BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.239**	0.2500	0.01900	88.0	0.2390	0.00	10/13/2023

Batch R337689 **SampType:** MS Units **mg/L**
SampID: 23091794-089BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**4.84**	1.250	3.524	105.6	85	115	10/13/2023

Batch R337689 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-089BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		**4.96**	1.250	3.524	114.6	4.844	2.31	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R337778 **SampType:** MS Units **mg/L**
SampID: 23091794-043BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.243**	0.2500	0.01600	90.8	85	115	10/13/2023

Batch R337778 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-043BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.245**	0.2500	0.01600	91.6	0.2430	0.82	10/13/2023

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R337689 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						10/13/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	10/13/2023

Batch R337689 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.521**	0.5000	0	104.2	90	110	10/13/2023

Batch R337689 **SampType:** MS Units **mg/L**
SampID: 23100943-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.287**	0.2500	0.05000	94.8	85	115	10/13/2023

Batch R337689 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100943-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.286**	0.2500	0.05000	94.4	0.2870	0.35	10/13/2023

Batch R337778 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		**< 0.050**						10/13/2023
Nitrogen, Nitrate-Nitrite (as N)		0.050		**< 0.050**	0.0090	0	0	-100	100	10/13/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

Batch R337778 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213161

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)	*	0.050		**< 0.050**						10/13/2023
Nitrogen, Nitrate-Nitrite (as N)	*	0.050		**< 0.050**	0.0090	0	0	-100	100	10/13/2023

Batch R337778 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.512**	0.5000	0	102.4	90	110	10/13/2023

Batch R337778 **SampType:** MS Units **mg/L**
SampID: 23101027-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.387**	0.2500	0.1530	93.6	90	110	10/13/2023

Batch R337778 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101027-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		**0.388**	0.2500	0.1530	94.0	0.3870	0.26	10/13/2023

STANDARD METHODS 5220 D (TOTAL) 1997

Batch R337798 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		50		**< 50**	17.00	0	0	-100	100	10/16/2023

Batch R337798 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		50		**160**	164.1	0	97.7	90	110	10/16/2023

Batch R337798 **SampType:** MS Units **mg/L**
SampID: 23091794-091FMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		100		**1030**	1000	28.49	99.7	85	115	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

STANDARD METHODS 5220 D (TOTAL) 1997

Batch R337798 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-091FMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chemical Oxygen Demand		100		**1130**	1000	28.49	110.1	1026	9.63	10/16/2023

Batch R337798 **SampType:** MS Units **mg/L**
SampID: 23100390-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		100		**1070**	1000	17.68	105.5	85	115	10/16/2023

Batch R337798 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100390-005BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chemical Oxygen Demand		100		**991**	1000	17.68	97.3	1073	7.96	10/16/2023

Batch R337798 **SampType:** MS Units **mg/L**
SampID: 23101055-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chemical Oxygen Demand		100		**1030**	1000	19.85	101.4	90	110	10/16/2023

Batch R337798 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101055-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chemical Oxygen Demand		100		**974**	1000	19.85	95.4	1034	6.03	10/16/2023

SW-846 9012A (TOTAL)

Batch 213268 **SampType:** MBLK Units **mg/L**
SampID: MBLK 231013 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	10/16/2023

Batch 213268 **SampType:** LCS Units **mg/L**
SampID: LCS 231013 TCN1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	99.6	90	110	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9012A (TOTAL)

Batch 213268 **SampType:** MS Units **mg/L**
SampID: 23091794-027DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	99.4	75	125	10/16/2023

Batch 213268 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-027DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	100.1	0.02484	0.76	10/16/2023

Batch 213268 **SampType:** MS Units **mg/L**
SampID: 23091794-052DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	97.4	75	125	10/16/2023

Batch 213268 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-052DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	97.2	0.02435	0.16	10/16/2023

Batch 213269 **SampType:** MBLK Units **mg/L**
SampID: MBLK 231013 TCN2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**< 0.005**	0.0015	0	0	-100	100	10/16/2023

Batch 213269 **SampType:** LCS Units **mg/L**
SampID: LCS 231013 TCN2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	100.2	90	110	10/16/2023

Batch 213269 **SampType:** MS Units **mg/L**
SampID: 23091794-088DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		**0.025**	0.0250	0	101.2	75	125	10/16/2023

Batch 213269 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-088DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005		**0.024**	0.0250	0	96.9	0.02530	4.30	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9012A (TOTAL)

Batch 213269 **SampType:** MS Units **mg/L**
SampID: 23100760-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005	S	**0.022**	0.0250	0.001695	82.4	90	110	10/16/2023

Batch 213269 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100760-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cyanide		0.005	S	**0.023**	0.0250	0.001695	84.9	0.02230	2.72	10/16/2023

SW-846 9036 (DISSOLVED)

Batch R337770 **SampType:** MS Units **mg/L**
SampID: 23100805-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**46**	20.00	27.53	93.4	85	115	10/13/2023

Batch R337770 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100805-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**48**	20.00	27.53	102.0	46.21	3.63	10/13/2023

Batch R337770 **SampType:** MS Units **mg/L**
SampID: 23100942-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**186**	100.0	98.41	87.6	85	115	10/13/2023

Batch R337770 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100942-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**190**	100.0	98.41	91.9	186.0	2.30	10/13/2023

Batch R337819 **SampType:** MS Units **mg/L**
SampID: 23091794-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**209**	100.0	118.2	91.2	85	115	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (DISSOLVED)

Batch R337819 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**209**	100.0	118.2	90.6	209.4	0.29	10/16/2023

Batch R337819 **SampType:** MS Units **mg/L**
SampID: 23091794-060BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**458**	200.0	275.7	91.0	85	115	10/16/2023

Batch R337819 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-060BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**459**	200.0	275.7	91.7	457.7	0.32	10/16/2023

Batch R337819 **SampType:** MS Units **mg/L**
SampID: 23091794-101BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1880**	1000	929.5	95.1	85	115	10/16/2023

Batch R337819 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-101BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**1840**	1000	929.5	91.3	1881	2.04	10/16/2023

Batch R337929 **SampType:** MS Units **mg/L**
SampID: 23091794-027BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1780**	1000	826.9	95.0	85	115	10/18/2023

Batch R337929 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-027BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**1780**	1000	826.9	95.8	1777	0.41	10/18/2023

Batch R338019 **SampType:** MS Units **mg/L**
SampID: 23101443-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**186**	100.0	92.03	93.7	85	115	10/19/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (DISSOLVED)

Batch R338019 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101443-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**193**	100.0	92.03	100.6	185.7	3.66	10/19/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101550-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**185**	100.0	92.14	93.1	85	115	10/23/2023

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101550-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**192**	100.0	92.14	99.4	185.3	3.32	10/23/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101668-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**294**	200.0	123.0	85.7	85	115	10/23/2023

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101668-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**299**	200.0	123.0	88.0	294.3	1.56	10/23/2023

SW-846 9036 (TOTAL)

Batch R337770 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/13/2023

Batch R337770 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**18**	20.00	0	90.1	90	110	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R337770 **SampType:** MS Units **mg/L**
SampID: 23091794-010AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**27**	20.00	10.93	80.6	85	115	10/13/2023

Batch R337770 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-010AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	**27**	20.00	10.93	81.6	27.05	0.70	10/13/2023

Batch R337770 **SampType:** MS Units **mg/L**
SampID: 23100806-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**20**	20.00	7.110	65.4	85	115	10/13/2023

Batch R337770 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100806-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	**20**	20.00	7.110	65.2	20.18	0.15	10/13/2023

Batch R337770 **SampType:** MS Units **mg/L**
SampID: 23100880-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**99**	40.00	60.17	96.6	90	110	10/13/2023

Batch R337770 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100880-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**100**	40.00	60.17	98.6	98.80	0.83	10/13/2023

Batch R337770 **SampType:** MS Units **mg/L**
SampID: 23100941-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**186**	100.0	97.00	89.5	85	115	10/13/2023

Batch R337770 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100941-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**188**	100.0	97.00	91.4	186.5	1.05	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R337819 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/16/2023

Batch R337819 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	95.5	90	110	10/16/2023

Batch R337819 **SampType:** MS Units **mg/L**
SampID: 23091794-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**211**	100.0	113.2	97.6	85	115	10/16/2023

Batch R337819 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**207**	100.0	113.2	94.0	210.8	1.69	10/16/2023

Batch R337819 **SampType:** MS Units **mg/L**
SampID: 23091794-103AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**22**	20.00	10.85	55.8	85	115	10/17/2023

Batch R337819 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-103AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	**22**	20.00	10.85	56.8	22.02	0.86	10/17/2023

Batch R337819 **SampType:** MS Units **mg/L**
SampID: 23101081-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**28**	20.00	10.73	88.5	85	115	10/17/2023

Batch R337819 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101081-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**28**	20.00	10.73	88.2	28.43	0.25	10/17/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R337890 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/17/2023

Batch R337890 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	93.9	90	110	10/17/2023

Batch R337890 **SampType:** MS Units **mg/L**
SampID: 23101090-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**499**	200.0	325.3	86.9	85	115	10/17/2023

Batch R337890 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101090-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**496**	200.0	325.3	85.3	499.1	0.64	10/17/2023

Batch R337890 **SampType:** MS Units **mg/L**
SampID: 23101094-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**410**	200.0	232.2	89.0	85	115	10/17/2023

Batch R337890 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101094-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**412**	200.0	232.2	90.0	410.2	0.47	10/17/2023

Batch R337890 **SampType:** MS Units **mg/L**
SampID: 23101248-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**24**	20.00	8.620	75.2	85	115	10/17/2023

Batch R337890 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101248-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	**25**	20.00	8.620	79.4	23.65	3.57	10/17/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R337929 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/18/2023

Batch R337929 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**19**	20.00	0	93.6	90	110	10/18/2023

Batch R337929 **SampType:** MS Units **mg/L**
SampID: 23101091-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1750**	1000	788.0	96.5	85	115	10/18/2023

Batch R337929 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101091-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**1740**	1000	788.0	95.6	1753	0.47	10/18/2023

Batch R337929 **SampType:** MS Units **mg/L**
SampID: 23101234-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	E	**50**	20.00	31.49	93.6	85	115	10/18/2023

Batch R337929 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101234-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	E	**50**	20.00	31.49	93.6	50.21	0.00	10/18/2023

Batch R337929 **SampType:** MS Units **mg/L**
SampID: 23101315-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	**21**	20.00	6.290	73.9	85	115	10/18/2023

Batch R337929 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101315-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	S	**21**	20.00	6.290	71.8	21.07	2.01	10/18/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R337929 **SampType:** MS Units **mg/L**
SampID: 23101339-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		50		**170**	100.0	79.36	91.0	85	115	10/18/2023

Batch R337929 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101339-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		50		**174**	100.0	79.36	94.5	170.4	2.00	10/18/2023

Batch R338019 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/19/2023

Batch R338019 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213454

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate	*	10		**< 10**	6.000	0	0	-100	100	10/19/2023

Batch R338019 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	98.6	90	110	10/19/2023

Batch R338019 **SampType:** MS Units **mg/L**
SampID: 23101474-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**92**	40.00	53.29	97.9	90	110	10/19/2023

Batch R338019 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101474-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**94**	40.00	53.29	101.1	92.46	1.37	10/19/2023

Batch R338161 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/23/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R338161 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	100.8	90	110	10/23/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101504-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		5000		**18100**	10000	8607	94.5	90	110	10/23/2023

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101504-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		5000		**18600**	10000	8607	100.4	18060	3.22	10/23/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101548-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**39**	20.00	21.70	87.2	85	115	10/23/2023

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101548-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**40**	20.00	21.70	89.3	39.15	1.04	10/23/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101593-004CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**352**	200.0	167.7	92.1	90	110	10/23/2023

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101593-004CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100	S	**334**	200.0	167.7	83.0	352.0	5.35	10/23/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101670-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		100		**300**	200.0	124.5	87.8	85	115	10/23/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101670-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		100		**304**	200.0	124.5	89.9	300.0	1.42	10/23/2023

Batch R338161 **SampType:** MS Units **mg/L**
SampID: 23101709-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**80**	40.00	42.50	94.0	85	115	10/23/2023

Batch R338161 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23101709-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**80**	40.00	42.50	93.5	80.11	0.29	10/23/2023

Batch R338345 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**< 10**	6.140	0	0	-100	100	10/26/2023

Batch R338345 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**20**	20.00	0	99.0	90	110	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		**33**	20.00	14.78	92.0	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100903-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10		**34**	20.00	14.78	96.8	33.18	2.88	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-018AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20	E	**103**	40.00	64.43	97.0	85	115	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100903-018AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20	E	**106**	40.00	64.43	103.2	103.2	2.38	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-025AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	E	**58**	20.00	40.35	89.9	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100903-025AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		10	E	**59**	20.00	40.35	93.2	58.33	1.13	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23100903-030AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		**90**	40.00	51.65	95.5	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23100903-030AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		20		**91**	40.00	51.65	97.7	89.85	0.96	10/26/2023

Batch R338345 **SampType:** MS Units **mg/Kg-dry**
SampID: 23101757-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		2090		**4120**	4186	0	98.4	85	115	10/26/2023

Batch R338345 **SampType:** MSD Units **mg/Kg-dry** RPD Limit: **10**
SampID: 23101757-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		2090		**4170**	4186	0	99.5	4120	1.13	10/26/2023

Batch R338345 **SampType:** MS Units **mg/L**
SampID: 23101895-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		500		**1520**	1000	589.6	92.9	90	110	10/26/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9036 (TOTAL)

Batch R338345 **SampType:** MSD Units **mg/L** RPD Limit: **10**

SampID: 23101895-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Sulfate		500		**1530**	1000	589.6	94.2	1519	0.87	10/26/2023

SW-846 9060A

Batch R337923 **SampType:** MBLK Units **mg/L**

SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**	0.4500	0	0	-100	100	10/18/2023

Batch R337923 **SampType:** LCS Units **mg/L**

SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.1**	5.000	0	101.6	90	110	10/18/2023

Batch R337923 **SampType:** DUP Units **mg/L** RPD Limit: **10**

SampID: 23101051-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**				0	0.00	10/18/2023

Batch R337923 **SampType:** DUP Units **mg/L** RPD Limit: **10**

SampID: 23101148-001DDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		10.0		**22.3**				23.26	4.39	10/18/2023

Batch R337923 **SampType:** DUP Units **mg/L** RPD Limit: **15**

SampID: 23101316-001KDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**6.2**				6.060	2.77	10/18/2023

Batch R338054 **SampType:** MBLK Units **mg/L**

SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**< 1.0**	0.4500	0	0	-100	100	10/20/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9060A

Batch R338054 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		1.0		**5.0**	5.000	0	101.0	90	110	10/20/2023

Batch R338054 **SampType:** MS Units **mg/L**
SampID: 23091794-062EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Organic Carbon (TOC)		5.0	S	**28.2**	25.00	8.760	77.6	85	115	10/20/2023

Batch R338054 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23091794-062EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		5.0	S	**28.6**	25.00	8.760	79.2	28.17	1.34	10/20/2023

Batch R338054 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101395-001ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**6.4**				6.390	0.47	10/20/2023

Batch R338054 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101395-002ADUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**3.7**				3.740	1.62	10/20/2023

Batch R338054 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101408-003DDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		10.0		**16.6**				16.80	1.20	10/20/2023

Batch R338054 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101408-004DDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**4.0**				3.980	0.25	10/20/2023

Batch R338054 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23101408-005DDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		1.0		**8.5**				8.390	0.95	10/20/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

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Batch R338054 **SampType:** DUP Units **mg/L** RPD Limit: **10**

SampID: 23101408-006DDUP

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Total Organic Carbon (TOC)		10.0		**11.2**				11.39	2.13	10/20/2023

SW-846 9214 (DISSOLVED)

Batch R337650 **SampType:** MS Units **mg/L**

SampID: 23100805-008BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.49**	2.000	0.3950	104.6	75	125	10/12/2023

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23100805-008BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.45**	2.000	0.3950	102.8	2.488	1.54	10/12/2023

Batch R337786 **SampType:** MS Units **mg/L**

SampID: 23091794-028BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.06**	2.000	0.2180	92.4	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23091794-028BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.12**	2.000	0.2180	94.9	2.065	2.44	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**

SampID: 23091794-046BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.30**	2.000	0.3240	98.8	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23091794-046BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.37**	2.000	0.3240	102.2	2.299	2.91	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9214 (DISSOLVED)

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23091794-104BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.35**	2.000	0.2700	104.0	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-104BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.32**	2.000	0.2700	102.4	2.350	1.33	10/16/2023

SW-846 9214 (TOTAL)

Batch R337650 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	10/12/2023

Batch R337650 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**0.99**	1.000	0	98.9	90	110	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23091794-012AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.56**	2.000	0.4790	103.9	75	125	10/12/2023

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-012AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.55**	2.000	0.4790	103.4	2.557	0.39	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23091794-021AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.55**	2.000	0.5430	100.3	75	125	10/12/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9214 (TOTAL)

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-021AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.62**	2.000	0.5430	103.6	2.549	2.59	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23091794-102AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.95**	2.000	0.2040	87.4	75	125	10/12/2023

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-102AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**1.98**	2.000	0.2040	89.0	1.952	1.63	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23092056-002BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.88**	2.000	0.9050	98.8	75	125	10/12/2023

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23092056-002BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.91**	2.000	0.9050	100.4	2.882	1.10	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23100530-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.59**	2.000	0.6590	96.6	75	125	10/12/2023

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100530-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.61**	2.000	0.6590	97.8	2.590	0.92	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23100712-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.53**	2.000	0.6370	94.8	75	125	10/12/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9214 (TOTAL)

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100712-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.58**	2.000	0.6370	97.2	2.532	1.92	10/12/2023

Batch R337650 **SampType:** MS Units **mg/L**
SampID: 23100860-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.66**	2.000	0.7130	97.2	75	125	10/12/2023

Batch R337650 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100860-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.67**	2.000	0.7130	97.8	2.657	0.49	10/12/2023

Batch R337786 **SampType:** MBLK Units **mg/L**
SampID: MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**< 0.10**	0.0500	0	0	-100	100	10/16/2023

Batch R337786 **SampType:** LCS Units **mg/L**
SampID: LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.01**	1.000	0	101.1	90	110	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23091794-016AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.35**	2.000	0.2150	106.6	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-016AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.66**	2.000	0.2150	122.2	2.348	12.39	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23091794-023AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.98**	2.000	0.9210	103.1	75	125	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9214 (TOTAL)

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-023AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.98**	2.000	0.9210	102.9	2.983	0.13	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23100953-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.76**	2.000	0.6310	106.4	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100953-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.72**	2.000	0.6310	104.2	2.759	1.61	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23101030-004AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.32**	2.000	0.3580	98.0	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101030-004AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.40**	2.000	0.3580	102.2	2.317	3.64	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23101081-008AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**1.92**	2.000	0	96.2	75	125	10/16/2023

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101081-008AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**1.93**	2.000	0	96.4	1.925	0.16	10/16/2023

Batch R337786 **SampType:** MS Units **mg/L**
SampID: 23101092-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		**2.53**	2.000	0.4170	105.8	75	125	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9214 (TOTAL)

Batch R337786 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23101092-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		**2.52**	2.000	0.4170	105.2	2.533	0.47	10/16/2023

SW-846 9251 (DISSOLVED)

Batch R337794 **SampType:** MS Units **mg/L**

SampID: 23091794-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**26**	20.00	7.920	90.6	85	115	10/13/2023

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23091794-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**26**	20.00	7.920	90.2	26.05	0.35	10/13/2023

Batch R337794 **SampType:** MS Units **mg/L**

SampID: 23100805-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	E	**51**	20.00	32.39	90.8	85	115	10/13/2023

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23100805-003BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	E	**51**	20.00	32.39	90.8	50.54	0.02	10/13/2023

Batch R337794 **SampType:** MS Units **mg/L**

SampID: 23100942-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**25**	20.00	6.470	90.5	85	115	10/13/2023

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**

SampID: 23100942-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**24**	20.00	6.470	90.1	24.57	0.33	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (DISSOLVED)

Batch R337841 **SampType:** MS Units **mg/L**
SampID: 23091794-027BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**119**	100.0	26.60	92.3	85	115	10/16/2023

Batch R337841 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-027BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**117**	100.0	26.60	90.0	118.9	1.95	10/16/2023

Batch R337841 **SampType:** MS Units **mg/L**
SampID: 23091794-060BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**136**	100.0	46.37	90.0	85	115	10/16/2023

Batch R337841 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-060BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**136**	100.0	46.37	89.9	136.4	0.12	10/16/2023

Batch R337841 **SampType:** MS Units **mg/L**
SampID: 23091794-101BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40	S	**328**	200.0	161.9	83.2	85	115	10/16/2023

Batch R337841 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-101BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40	S	**327**	200.0	161.9	82.8	328.3	0.26	10/16/2023

Batch R338024 **SampType:** MS Units **mg/L**
SampID: 23101443-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	E	**53**	20.00	35.15	90.2	85	115	10/19/2023

Batch R338024 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101443-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	E	**52**	20.00	35.15	86.4	53.19	1.46	10/19/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (DISSOLVED)

Batch R338166 **SampType:** MS Units **mg/L**
SampID: 23101550-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	E	**63**	20.00	44.46	94.4	85	115	10/23/2023

Batch R338166 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101550-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4	E	**64**	20.00	44.46	97.4	63.34	0.94	10/23/2023

Batch R338166 **SampType:** MS Units **mg/L**
SampID: 23101668-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**31**	20.00	12.95	90.0	85	115	10/23/2023

Batch R338166 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101668-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**31**	20.00	12.95	90.0	30.96	0.03	10/23/2023

SW-846 9251 (TOTAL)

Batch R337794 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/13/2023

Batch R337794 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	98.8	90	110	10/13/2023

Batch R337794 **SampType:** MS Units **mg/L**
SampID: 23091794-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**26**	20.00	7.440	90.8	85	115	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**26**	20.00	7.440	91.2	25.59	0.39	10/13/2023

Batch R337794 **SampType:** MS Units **mg/L**
SampID: 23091794-010AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**40**	20.00	22.51	86.2	85	115	10/13/2023

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-010AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**40**	20.00	22.51	86.6	39.74	0.25	10/13/2023

Batch R337794 **SampType:** MS Units **mg/L**
SampID: 23100806-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**27**	20.00	8.750	89.8	85	115	10/13/2023

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100806-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**27**	20.00	8.750	89.9	26.70	0.11	10/13/2023

Batch R337794 **SampType:** MS Units **mg/L**
SampID: 23100941-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**25**	20.00	6.510	90.8	85	115	10/13/2023

Batch R337794 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100941-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**25**	20.00	6.510	91.2	24.66	0.36	10/13/2023

Batch R337841 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R337841 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**19**	20.00	0	95.0	90	110	10/16/2023

Batch R337841 **SampType:** MS Units **mg/L**
SampID: 23091794-103AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**248**	200.0	48.59	99.7	85	115	10/17/2023

Batch R337841 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23091794-103AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**243**	200.0	48.59	97.1	248.0	2.15	10/17/2023

Batch R337841 **SampType:** MS Units **mg/L**
SampID: 23101081-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	99.6	85	115	10/17/2023

Batch R337841 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101081-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**20**	20.00	0	99.7	19.91	0.10	10/17/2023

Batch R337892 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/17/2023

Batch R337892 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**19**	20.00	0	92.6	90	110	10/17/2023

Batch R337892 **SampType:** MS Units **mg/L**
SampID: 23101090-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40		**468**	200.0	279.7	94.2	85	115	10/17/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R337892 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101090-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40		**462**	200.0	279.7	91.0	468.2	1.38	10/17/2023

Batch R337892 **SampType:** MS Units **mg/L**
SampID: 23101094-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**30**	20.00	12.21	90.0	85	115	10/17/2023

Batch R337892 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101094-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**30**	20.00	12.21	90.9	30.20	0.59	10/17/2023

Batch R337892 **SampType:** MS Units **mg/L**
SampID: 23101248-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**47**	20.00	27.40	97.6	85	115	10/17/2023

Batch R337892 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101248-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**46**	20.00	27.40	95.2	46.91	0.99	10/17/2023

Batch R337955 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/18/2023

Batch R337955 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	100.2	90	110	10/18/2023

Batch R337955 **SampType:** MS Units **mg/L**
SampID: 23101091-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		200		**1160**	1000	204.0	96.0	85	115	10/18/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R337955 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101091-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		200		**1170**	1000	204.0	96.3	1164	0.23	10/18/2023

Batch R337955 **SampType:** MS Units **mg/L**
SampID: 23101234-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**170**	100.0	78.40	91.2	85	115	10/18/2023

Batch R337955 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101234-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**173**	100.0	78.40	94.6	169.6	1.98	10/18/2023

Batch R337955 **SampType:** MS Units **mg/L**
SampID: 23101315-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**32**	20.00	13.45	94.6	85	115	10/18/2023

Batch R337955 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101315-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**32**	20.00	13.45	92.5	32.38	1.34	10/18/2023

Batch R337955 **SampType:** MS Units **mg/L**
SampID: 23101339-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		20		**187**	100.0	97.26	89.5	85	115	10/18/2023

Batch R337955 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101339-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		20		**191**	100.0	97.26	93.6	186.8	2.18	10/18/2023

Batch R338024 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/19/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R338024 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213454

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	4		**< 4**	0.5000	0	0	-100	100	10/19/2023

Batch R338024 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	100.7	90	110	10/19/2023

Batch R338166 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/23/2023

Batch R338166 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**21**	20.00	0	102.6	90	110	10/23/2023

Batch R338166 **SampType:** MS Units **mg/L**
SampID: 23101504-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		2000		**13800**	10000	4542	92.9	85	115	10/23/2023

Batch R338166 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101504-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		2000		**13900**	10000	4542	93.8	13830	0.68	10/23/2023

Batch R338166 **SampType:** MS Units **mg/L**
SampID: 23101548-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**35**	20.00	16.94	89.7	85	115	10/23/2023

Batch R338166 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101548-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**35**	20.00	16.94	90.7	34.87	0.60	10/23/2023

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Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R338166 **SampType:** MS Units **mg/L**
SampID: 23101593-004CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		40	S	**364**	200.0	195.3	84.3	85	115	10/23/2023

Batch R338166 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101593-004CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		40	S	**361**	200.0	195.3	83.0	363.9	0.72	10/23/2023

Batch R338166 **SampType:** MS Units **mg/L**
SampID: 23101670-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**31**	20.00	12.77	90.8	85	115	10/23/2023

Batch R338166 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23101670-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**31**	20.00	12.77	91.8	30.94	0.58	10/23/2023

Batch R338363 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**< 4**	0.5000	0	0	-100	100	10/26/2023

Batch R338363 **SampType:** MBLK Units **mg/Kg**
SampID: MB-R338363

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	40		**< 40**	0.5000	0	0	-100	100	10/26/2023

Batch R338363 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**20**	20.00	0	100.6	90	110	10/26/2023

Batch R338363 **SampType:** LCS Units **mg/Kg**
SampID: LCS-R338363

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	40	J	**20**	20.00	0	100.6	90	110	10/26/2023

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-002AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**40**	20.00	21.82	90.0	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100903-002AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**40**	20.00	21.82	90.6	39.82	0.33	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-018AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**36**	20.00	17.17	92.6	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100903-018AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**36**	20.00	17.17	93.0	35.68	0.22	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-025AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**39**	20.00	20.92	91.8	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100903-025AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**39**	20.00	20.92	92.8	39.29	0.46	10/26/2023

Batch R338363 **SampType:** MS Units **mg/L**
SampID: 23100903-030AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		**30**	20.00	11.59	94.4	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23100903-030AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		**30**	20.00	11.59	94.3	30.46	0.03	10/26/2023

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 9251 (TOTAL)

Batch R338363 **SampType:** MS Units **mg/Kg-dry**

SampID: 23101757-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride	*	837		**4220**	4186	161.4	96.9	85	115	10/26/2023

Batch R338363 **SampType:** MSD Units **mg/Kg-dry** RPD Limit: **15**

SampID: 23101757-001AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride	*	837		**4200**	4186	161.4	96.4	4220	0.51	10/26/2023

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213337 **SampType:** MBLK Units **mg/L**

SampID: MBLK-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	10/18/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	10/18/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	10/18/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	10/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/18/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	10/18/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/18/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	10/18/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/18/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/18/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	10/18/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/18/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	10/18/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	10/18/2023

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213337 **SampType:** LCS Units **mg/L**

SampID: LCS-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		**0.484**	0.5000	0	96.9	85	115	10/18/2023
Arsenic		0.0250		**0.490**	0.5000	0	97.9	85	115	10/18/2023
Boron		0.0200		**0.482**	0.5000	0	96.4	85	115	10/18/2023
Cadmium		0.0020		**0.0485**	0.0500	0	97.0	85	115	10/18/2023
Calcium		0.100		**2.54**	2.500	0	101.5	85	115	10/18/2023
Chromium		0.0050		**0.195**	0.2000	0	97.3	85	115	10/18/2023
Iron		0.0400		**2.04**	2.000	0	102.0	85	115	10/18/2023
Lead		0.0150		**0.489**	0.5000	0	97.8	85	115	10/18/2023
Magnesium		0.0500		**2.31**	2.500	0	92.4	85	115	10/18/2023
Manganese		0.0070		**0.488**	0.5000	0	97.5	85	115	10/18/2023
Potassium		0.100		**2.53**	2.500	0	101.1	85	115	10/18/2023
Selenium		0.0400		**0.465**	0.5000	0	93.0	85	115	10/18/2023
Sodium		0.0500		**2.48**	2.500	0	99.3	85	115	10/18/2023
Vanadium		0.0100		**0.487**	0.5000	0	97.4	85	115	10/18/2023
Zinc		0.0100		**0.485**	0.5000	0	97.0	85	115	10/18/2023

Batch 213337 **SampType:** MS Units **mg/L**

SampID: 23091794-049CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**539**	2.500	545.5	-244.0	75	125	10/18/2023
Magnesium		0.050	S	**418**	2.500	425.1	-288.4	75	125	10/18/2023
Potassium		0.100		**8.65**	2.500	6.102	102.0	75	125	10/18/2023
Sodium		0.050	S	**424**	2.500	432.1	-313.6	75	125	10/18/2023

Batch 213337 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091794-049CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**534**	2.500	545.5	-472.4	539.4	1.06	10/18/2023
Magnesium		0.050	S	**416**	2.500	425.1	-372.2	417.8	0.50	10/18/2023
Potassium		0.100		**8.63**	2.500	6.102	101.0	8.651	0.27	10/18/2023
Sodium		0.050	S	**423**	2.500	432.1	-363.2	424.2	0.29	10/18/2023

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213337 **SampType:** MS Units **mg/L**

SampID: 23100899-005CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		**5.73**	2.000	3.650	104.0	75	125	10/18/2023
Manganese		0.0070		**2.15**	0.5000	1.680	95.1	75	125	10/18/2023

Batch 213337 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23100899-005CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		**5.68**	2.000	3.650	101.5	5.730	0.88	10/18/2023
Manganese		0.0070		**2.14**	0.5000	1.680	91.4	2.155	0.86	10/18/2023

Batch 213338 **SampType:** MBLK Units **mg/L**

SampID: MBLK-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	10/18/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	10/18/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	10/18/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	10/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/18/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	10/18/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/18/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	10/18/2023
Magnesium		0.050		**< 0.050**	0.0055	0	0	-100	100	10/18/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/18/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/18/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	10/18/2023
Sodium		0.050		**< 0.050**	0.0180	0	0	-100	100	10/18/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/18/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	10/18/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	10/18/2023

Teklab, Inc.
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Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213338 **SampType:** LCS Units **mg/L**

SampID: LCS-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		**0.436**	0.5000	0	87.1	85	115	10/18/2023
Arsenic		0.0250		**0.488**	0.5000	0	97.6	85	115	10/18/2023
Boron		0.0200		**0.487**	0.5000	0	97.4	85	115	10/18/2023
Cadmium		0.0020		**0.0462**	0.0500	0	92.4	85	115	10/18/2023
Calcium		0.100		**2.55**	2.500	0	102.0	85	115	10/18/2023
Calcium		0.100		**2.55**	2.500	0	102.0	85	115	10/18/2023
Chromium		0.0050		**0.195**	0.2000	0	97.3	85	115	10/18/2023
Iron		0.0400		**1.99**	2.000	0	99.3	85	115	10/18/2023
Lead		0.0150		**0.481**	0.5000	0	96.3	85	115	10/18/2023
Magnesium		0.050		**2.19**	2.500	0	87.8	85	115	10/18/2023
Magnesium		0.0500		**2.19**	2.500	0	87.8	85	115	10/18/2023
Manganese		0.0070		**0.496**	0.5000	0	99.1	85	115	10/18/2023
Potassium		0.100		**2.54**	2.500	0	101.6	85	115	10/18/2023
Potassium		0.100		**2.54**	2.500	0	101.6	85	115	10/18/2023
Selenium		0.0400		**0.478**	0.5000	0	95.5	85	115	10/18/2023
Sodium		0.050		**2.41**	2.500	0	96.2	85	115	10/18/2023
Sodium		0.0500		**2.41**	2.500	0	96.2	85	115	10/18/2023
Vanadium		0.0100		**0.481**	0.5000	0	96.2	85	115	10/18/2023
Zinc		0.0100		**0.485**	0.5000	0	97.1	85	115	10/18/2023

Batch 213338 **SampType:** MS Units **mg/L**

SampID: 23100935-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**93.8**	2.500	93.08	30.0	75	125	10/18/2023
Iron		0.0400		**1.99**	2.000	0	99.7	75	125	10/18/2023
Magnesium		0.0500		**32.2**	2.500	30.02	87.5	75	125	10/18/2023
Potassium		0.100		**5.41**	2.500	2.967	97.5	75	125	10/18/2023
Sodium		0.0500		**13.4**	2.500	11.28	82.8	75	125	10/18/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213338 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23100935-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**93.1**	2.500	93.08	0.8	93.83	0.78	10/18/2023
Iron		0.0400		**1.98**	2.000	0	98.8	1.994	0.95	10/18/2023
Magnesium		0.0500		**31.9**	2.500	30.02	76.3	32.21	0.88	10/18/2023
Potassium		0.100		**5.37**	2.500	2.967	96.3	5.406	0.59	10/18/2023
Sodium		0.0500		**13.3**	2.500	11.28	80.0	13.35	0.53	10/18/2023

Batch 213380 **SampType:** MBLK Units **mg/L**

SampID: MBLK-213380

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		**< 0.0500**	0.0068	0	0	-100	100	10/18/2023
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	10/18/2023
Boron		0.0200		**< 0.0200**	0.0090	0	0	-100	100	10/18/2023
Cadmium		0.0020		**< 0.0020**	0.0005	0	0	-100	100	10/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/18/2023
Chromium		0.0050		**< 0.0050**	0.0028	0	0	-100	100	10/18/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/18/2023
Lead		0.0150		**< 0.0150**	0.0014	0	0	-100	100	10/18/2023
Magnesium		0.050		**< 0.050**	0.0055	0	0	-100	100	10/18/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/18/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/18/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/18/2023
Selenium		0.0400		**< 0.0400**	0.0170	0	0	-100	100	10/18/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/18/2023
Sodium		0.050		**< 0.050**	0.0180	0	0	-100	100	10/18/2023
Vanadium		0.0100		**< 0.0100**	0.0009	0	0	-100	100	10/18/2023
Zinc		0.0100		**< 0.0100**	0.0050	0	0	-100	100	10/18/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213380 **SampType:** LCS Units **mg/L**

SampID: LCS-213380

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		**0.442**	0.5000	0	88.4	85	115	10/18/2023
Arsenic		0.0250		**0.496**	0.5000	0	99.2	85	115	10/18/2023
Boron		0.0200		**0.482**	0.5000	0	96.5	85	115	10/18/2023
Cadmium		0.0020		**0.0508**	0.0500	0	101.6	85	115	10/18/2023
Calcium		0.100		**2.51**	2.500	0	100.5	85	115	10/18/2023
Chromium		0.0050		**0.193**	0.2000	0	96.6	85	115	10/18/2023
Iron		0.0400		**1.98**	2.000	0	99.1	85	115	10/18/2023
Lead		0.0150		**0.483**	0.5000	0	96.6	85	115	10/18/2023
Magnesium		0.0500		**2.23**	2.500	0	89.1	85	115	10/18/2023
Manganese		0.0070		**0.475**	0.5000	0	95.0	85	115	10/18/2023
Potassium		0.100		**2.58**	2.500	0	103.3	85	115	10/18/2023
Selenium		0.0400		**0.484**	0.5000	0	96.8	85	115	10/18/2023
Sodium		0.0500		**2.48**	2.500	0	99.2	85	115	10/18/2023
Vanadium		0.0100		**0.488**	0.5000	0	97.6	85	115	10/18/2023
Zinc		0.0100		**0.491**	0.5000	0	98.2	85	115	10/18/2023

Batch 213380 **SampType:** MS Units **mg/L**

SampID: 23091794-027CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**213**	2.500	215.4	-90.0	75	125	10/18/2023
Magnesium		0.050	S	**167**	2.500	167.8	-28.7	75	125	10/18/2023
Potassium		0.100		**5.43**	2.500	2.876	102.3	75	125	10/18/2023
Sodium		0.050	S	**96.5**	2.500	96.11	14.0	75	125	10/18/2023

Batch 213380 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23091794-027CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**214**	2.500	215.4	-54.4	213.2	0.42	10/18/2023
Magnesium		0.050	S	**168**	2.500	167.8	-8.0	167.1	0.31	10/18/2023
Potassium		0.100		**5.55**	2.500	2.876	107.1	5.434	2.17	10/18/2023
Sodium		0.050	S	**96.8**	2.500	96.11	29.2	96.46	0.39	10/18/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213380 **SampType:** MS Units **mg/L**
SampID: 23091794-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**515**	2.500	524.6	-370.4	75	125	10/18/2023
Magnesium		0.050	S	**368**	2.500	371.4	-133.0	75	125	10/18/2023
Potassium		0.100		**9.06**	2.500	6.399	106.3	75	125	10/18/2023
Sodium		0.050	S	**412**	2.500	418.1	-260.8	75	125	10/18/2023

Batch 213380 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091794-043CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**517**	2.500	524.6	-312.4	515.4	0.28	10/18/2023
Magnesium		0.050	S	**368**	2.500	371.4	-148.6	368.0	0.11	10/18/2023
Potassium		0.100		**9.05**	2.500	6.399	106.0	9.057	0.09	10/18/2023
Sodium		0.050	S	**414**	2.500	418.1	-173.6	411.6	0.53	10/18/2023

Batch 213410 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/19/2023
Iron		0.0400		**< 0.0400**	0.0200	0	0	-100	100	10/19/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/19/2023
Manganese		0.0070		**< 0.0070**	0.0025	0	0	-100	100	10/19/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/19/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/19/2023

Batch 213410 **SampType:** LCS Units **mg/L**
SampID: LCS-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.45**	2.500	0	98.0	85	115	10/19/2023
Iron		0.0400		**1.91**	2.000	0	95.6	85	115	10/19/2023
Magnesium		0.0500		**2.22**	2.500	0	88.9	85	115	10/19/2023
Manganese		0.0070		**0.467**	0.5000	0	93.5	85	115	10/19/2023
Potassium		0.100		**2.36**	2.500	0	94.5	85	115	10/19/2023
Sodium		0.0500		**2.35**	2.500	0	94.0	85	115	10/19/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 213410 **SampType:** MS Units **mg/L**
SampID: 23091794-100DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.47**	2.500	0	98.9	75	125	10/19/2023
Magnesium		0.050		**2.24**	2.500	0	89.5	75	125	10/19/2023
Potassium		0.100		**2.39**	2.500	0	95.7	75	125	10/19/2023
Sodium		0.050		**2.39**	2.500	0	95.4	75	125	10/19/2023

Batch 213410 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091794-100DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100		**2.50**	2.500	0	100.0	2.471	1.19	10/19/2023
Magnesium		0.050		**2.25**	2.500	0	89.8	2.238	0.34	10/19/2023
Potassium		0.100		**2.43**	2.500	0	97.1	2.393	1.39	10/19/2023
Sodium		0.050		**2.42**	2.500	0	96.6	2.386	1.27	10/19/2023

Batch 213410 **SampType:** MS Units **mg/L**
SampID: 23101133-013CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		**5.76**	4.000	2.220	88.5	75	125	10/19/2023
Manganese		0.0070		**2.73**	1.000	1.912	81.3	75	125	10/19/2023

Batch 213410 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23101133-013CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		**5.83**	4.000	2.220	90.2	5.760	1.21	10/19/2023
Manganese		0.0070		**2.75**	1.000	1.912	83.6	2.726	0.84	10/19/2023

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213214 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/13/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/13/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/13/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/13/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213214 **SampType:** LCS Units **mg/L**
SampID: LCS-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.66**	2.500	0	106.4	85	115	10/13/2023
Magnesium		0.0500		**2.46**	2.500	0	98.2	85	115	10/13/2023
Potassium		0.100		**2.64**	2.500	0	105.4	85	115	10/13/2023
Sodium		0.0500		**2.54**	2.500	0	101.5	85	115	10/13/2023

Batch 213214 **SampType:** MS Units **mg/L**
SampID: 23091794-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**14.4**	2.500	12.36	83.2	75	125	10/13/2023
Magnesium		0.050		**3.44**	2.500	1.078	94.3	75	125	10/13/2023
Potassium		2.00		**49.5**	2.500	46.89	103.1	75	125	10/16/2023
Sodium		1.00	S	**2100**	2.500	2113	-512.0	75	125	10/16/2023

Batch 213214 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091794-095BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**14.2**	2.500	12.36	73.6	14.44	1.68	10/13/2023
Magnesium		0.050		**3.33**	2.500	1.078	90.2	3.436	3.05	10/13/2023
Potassium		2.00	S	**50.2**	2.500	46.89	131.4	49.47	1.42	10/16/2023
Sodium		1.00	S	**2130**	2.500	2113	856.0	2100	1.62	10/16/2023

Batch 213222 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/13/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/13/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/13/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/13/2023

Batch 213222 **SampType:** LCS Units **mg/L**
SampID: LCS-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100		**2.64**	2.500	0	105.4	85	115	10/13/2023
Magnesium		0.0500		**2.45**	2.500	0	97.9	85	115	10/13/2023
Potassium		0.100		**2.65**	2.500	0	106.0	85	115	10/13/2023
Sodium		0.0500		**2.53**	2.500	0	101.2	85	115	10/13/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213222 **SampType:** MS Units **mg/L**
SampID: 23091794-098BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**126**	2.500	121.9	167.6	75	125	10/13/2023
Magnesium		0.050		**2.95**	2.500	0.5865	94.6	75	125	10/13/2023
Potassium		10.0	S	**97.2**	2.500	93.69	140.4	75	125	10/16/2023
Sodium		5.00	S	**4110**	2.500	4078	1400	75	125	10/16/2023

Batch 213222 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091794-098BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**126**	2.500	121.9	154.4	126.1	0.26	10/13/2023
Magnesium		0.050		**2.98**	2.500	0.5865	95.9	2.952	1.04	10/13/2023
Potassium		10.0	S	**98.5**	2.500	93.69	190.8	97.20	1.29	10/16/2023
Sodium		5.00	S	**4180**	2.500	4078	4280	4113	1.74	10/16/2023

Batch 213274 **SampType:** MBLK Units **mg/L**
SampID: MBLK-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**< 0.0250**	0.0087	0	0	-100	100	10/18/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/17/2023
Calcium		0.100		**< 0.100**	0.0350	0	0	-100	100	10/17/2023
Magnesium		0.0500		**< 0.0500**	0.0055	0	0	-100	100	10/17/2023
Magnesium		0.050		**< 0.050**	0.0055	0	0	-100	100	10/17/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/17/2023
Potassium		0.100		**< 0.100**	0.0400	0	0	-100	100	10/17/2023
Sodium		0.050		**< 0.050**	0.0180	0	0	-100	100	10/17/2023
Sodium		0.0500		**< 0.0500**	0.0180	0	0	-100	100	10/17/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 213274 **SampType:** LCS Units **mg/L**
SampID: LCS-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0250		**0.553**	0.5000	0	110.6	85	115	10/18/2023
Calcium		0.100		**2.61**	2.500	0	104.5	85	115	10/17/2023
Calcium		0.100		**2.61**	2.500	0	104.5	85	115	10/17/2023
Iron		0.0400		**2.22**	2.000	0	111.0	85	115	10/18/2023
Magnesium		0.050		**2.51**	2.500	0	100.5	85	115	10/17/2023
Magnesium		0.0500		**2.51**	2.500	0	100.5	85	115	10/17/2023
Potassium		0.100		**2.61**	2.500	0	104.3	85	115	10/17/2023
Potassium		0.100		**2.61**	2.500	0	104.3	85	115	10/17/2023
Sodium		0.0500		**2.59**	2.500	0	103.7	85	115	10/17/2023
Sodium		0.050		**2.59**	2.500	0	103.7	85	115	10/17/2023

Batch 213274 **SampType:** MS Units **mg/L**
SampID: 23091794-047BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Calcium		0.100	S	**130**	2.500	123.2	264.4	75	125	10/18/2023
Magnesium		0.050	S	**48.5**	2.500	44.61	154.8	75	125	10/18/2023
Potassium		0.100		**4.91**	2.500	2.002	116.5	75	125	10/18/2023
Sodium		0.050	S	**110**	2.500	103.2	271.2	75	125	10/18/2023

Batch 213274 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23091794-047BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Calcium		0.100	S	**129**	2.500	123.2	216.0	129.8	0.94	10/18/2023
Magnesium		0.050	S	**48.4**	2.500	44.61	151.2	48.48	0.18	10/18/2023
Potassium		0.100		**4.97**	2.500	2.002	118.6	4.915	1.05	10/18/2023
Sodium		0.050	S	**109**	2.500	103.2	227.2	110.0	1.00	10/18/2023

Batch 213274 **SampType:** MS Units **mg/L**
SampID: 23100784-003AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Potassium		1.00	S	**22.2**	2.500	20.76	56.6	75	125	10/18/2023

Batch 213274 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23100784-003AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Potassium		1.00		**23.4**	2.500	20.76	104.5	22.18	5.25	10/18/2023

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Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213337 **SampType:** MBLK Units **µg/L**

SampID: MBLK-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/17/2023
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/17/2023
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/17/2023
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/17/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/18/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/17/2023
Iron		25.0		**< 25.0**	11.50	0	0	-100	100	10/18/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/17/2023
Manganese		2.0		**< 2.0**	0.7500	0	0	-100	100	10/17/2023
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/17/2023
Vanadium		5.0		**< 5.0**	5.000	0	0	-100	100	10/18/2023
Zinc		15.0		**< 15.0**	5.900	0	0	-100	100	10/17/2023

Batch 213337 **SampType:** LCS Units **µg/L**

SampID: LCS-213337

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**461**	500.0	0	92.3	80	120	10/17/2023
Arsenic		1.0		**488**	500.0	0	97.6	80	120	10/17/2023
Boron		25.0		**453**	500.0	0	90.7	80	120	10/17/2023
Cadmium		1.0		**47.6**	50.00	0	95.3	80	120	10/17/2023
Chromium		1.5		**184**	200.0	0	91.9	80	120	10/18/2023
Chromium		1.5		**183**	200.0	0	91.5	80	120	10/17/2023
Iron		25.0		**1870**	2000	0	93.5	80	120	10/18/2023
Lead		1.0		**487**	500.0	0	97.5	80	120	10/17/2023
Manganese		2.0		**458**	500.0	0	91.7	80	120	10/17/2023
Selenium		1.0		**437**	500.0	0	87.4	80	120	10/17/2023
Vanadium		5.0		**452**	500.0	0	90.5	80	120	10/18/2023
Zinc		15.0		**440**	500.0	0	88.0	80	120	10/17/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213337 **SampType:** MS Units **µg/L**

SampID: 23091794-049CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**463**	500.0	0	92.5	75	125	10/17/2023
Arsenic		1.0		**501**	500.0	0.5128	100.1	75	125	10/17/2023
Boron		25.0	S	**558**	500.0	187.4	74.2	75	125	10/17/2023
Cadmium		1.0		**44.0**	50.00	0	88.1	75	125	10/17/2023
Chromium		1.5		**170**	200.0	0	85.1	75	125	10/18/2023
Lead		1.0		**404**	500.0	0	80.9	75	125	10/17/2023
Selenium		1.0		**443**	500.0	0	88.7	75	125	10/17/2023
Vanadium		5.0		**444**	500.0	0	88.9	75	125	10/18/2023
Zinc		15.0		**393**	500.0	0	78.7	75	125	10/17/2023

Batch 213337 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-049CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**459**	500.0	0	91.9	462.6	0.72	10/18/2023
Arsenic		1.0		**497**	500.0	0.5128	99.4	500.9	0.69	10/18/2023
Boron		25.0	S	**558**	500.0	187.4	74.2	558.3	0.01	10/18/2023
Cadmium		1.0		**43.5**	50.00	0	86.9	44.03	1.28	10/18/2023
Chromium		1.5		**169**	200.0	0	84.7	170.1	0.41	10/18/2023
Lead		1.0		**402**	500.0	0	80.4	404.3	0.56	10/18/2023
Selenium		1.0		**443**	500.0	0	88.5	443.3	0.18	10/18/2023
Vanadium		5.0		**448**	500.0	0	89.7	444.4	0.89	10/18/2023
Zinc		15.0		**387**	500.0	0	77.4	393.4	1.64	10/18/2023

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Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213338 **SampType:** MBLK Units µg/L
SampID: MBLK-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		< 1.0	0.4500	0	0	-100	100	10/18/2023
Arsenic		1.0		< 1.0	0.3750	0	0	-100	100	10/18/2023
Boron		25.0		< 25.0	9.250	0	0	-100	100	10/18/2023
Cadmium		1.0		< 1.0	0.1340	0	0	-100	100	10/18/2023
Chromium		1.5		< 1.5	0.7000	0	0	-100	100	10/18/2023
Iron		25.0		< 25.0	11.50	0	0	-100	100	10/18/2023
Lead		1.0		< 1.0	0.6000	0	0	-100	100	10/18/2023
Manganese		2.0		< 2.0	0.7500	0	0	-100	100	10/18/2023
Selenium		1.0		< 1.0	0.6000	0	0	-100	100	10/18/2023
Vanadium		5.0		< 5.0	5.000	0	0	-100	100	10/18/2023
Zinc		15.0		< 15.0	5.900	0	0	-100	100	10/18/2023

Batch 213338 **SampType:** LCS Units µg/L
SampID: LCS-213338

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		437	500.0	0	87.5	80	120	10/18/2023
Arsenic		1.0		481	500.0	0	96.1	80	120	10/18/2023
Boron		25.0		436	500.0	0	87.2	80	120	10/18/2023
Cadmium		1.0		45.0	50.00	0	89.9	80	120	10/18/2023
Chromium		1.5		176	200.0	0	88.0	80	120	10/18/2023
Iron		25.0		1800	2000	0	90.0	80	120	10/18/2023
Lead		1.0		473	500.0	0	94.7	80	120	10/18/2023
Manganese		2.0		458	500.0	0	91.7	80	120	10/18/2023
Selenium		1.0		451	500.0	0	90.2	80	120	10/18/2023
Vanadium		5.0		436	500.0	0	87.2	80	120	10/18/2023
Zinc		15.0		439	500.0	0	87.8	80	120	10/18/2023

Batch 213338 **SampType:** MS Units µg/L
SampID: 23091794-102DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Manganese		2.0		641	500.0	249.2	78.3	75	125	10/18/2023
Zinc		15.0		409	500.0	6.656	80.5	75	125	10/18/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213338 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-102DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Manganese		2.0		**627**	500.0	249.2	75.6	640.8	2.12	10/18/2023
Zinc		15.0		**383**	500.0	6.656	75.3	409.0	6.57	10/18/2023

Batch 213338 **SampType:** MS Units **µg/L**

SampID: 23100935-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**481**	500.0	1.197	95.9	75	125	10/18/2023
Cadmium		1.0		**45.0**	50.00	0	90.1	75	125	10/18/2023
Chromium		1.5		**177**	200.0	0	88.5	75	125	10/19/2023
Manganese		2.0		**452**	500.0	8.386	88.7	75	125	10/19/2023

Batch 213338 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23100935-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		1.0		**480**	500.0	1.197	95.8	480.9	0.13	10/18/2023
Cadmium		1.0		**45.2**	50.00	0	90.3	45.04	0.26	10/18/2023
Chromium		1.5		**174**	200.0	0	87.2	176.9	1.42	10/19/2023
Manganese		2.0		**440**	500.0	8.386	86.2	451.7	2.72	10/19/2023

Batch 213380 **SampType:** MBLK Units **µg/L**

SampID: MBLK-213380

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/19/2023
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/19/2023
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/20/2023
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/19/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/19/2023
Iron		25.0		**< 25.0**	11.50	0	0	-100	100	10/19/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/19/2023
Manganese		2.0		**< 2.0**	0.7500	0	0	-100	100	10/19/2023
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/19/2023
Vanadium		5.0		**< 5.0**	5.000	0	0	-100	100	10/19/2023
Zinc		15.0		**< 15.0**	5.900	0	0	-100	100	10/19/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213380 **SampType:** LCS Units **µg/L**

SampID: LCS-213380

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**452**	500.0	0	90.4	80	120	10/19/2023
Arsenic		1.0		**472**	500.0	0	94.5	80	120	10/19/2023
Boron		25.0		**459**	500.0	0	91.8	80	120	10/20/2023
Cadmium		1.0		**46.0**	50.00	0	92.0	80	120	10/19/2023
Chromium		1.5		**177**	200.0	0	88.7	80	120	10/19/2023
Iron		25.0		**1720**	2000	0	85.9	80	120	10/19/2023
Lead		1.0		**455**	500.0	0	91.0	80	120	10/19/2023
Manganese		2.0		**482**	500.0	0	96.4	80	120	10/19/2023
Selenium		1.0		**428**	500.0	0	85.6	80	120	10/20/2023
Vanadium		5.0		**463**	500.0	0	92.7	80	120	10/19/2023
Zinc		15.0		**422**	500.0	0	84.5	80	120	10/19/2023

Batch 213380 **SampType:** MS Units **µg/L**

SampID: 23091794-027CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**471**	500.0	0.6336	94.1	75	125	10/20/2023
Boron		25.0		**664**	500.0	220.4	88.8	75	125	10/20/2023
Cadmium		1.0		**43.7**	50.00	0	87.4	75	125	10/20/2023
Chromium		1.5		**186**	200.0	0	92.9	75	125	10/20/2023
Iron		25.0		**1990**	2000	123.1	93.2	75	125	10/20/2023
Lead		1.0		**438**	500.0	0	87.6	75	125	10/20/2023
Manganese		2.0		**927**	500.0	502.9	84.8	75	125	10/23/2023
Selenium		1.0		**416**	500.0	0	83.2	75	125	10/20/2023
Zinc		15.0		**413**	500.0	0	82.6	75	125	10/20/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213380 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-027CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		1.0		**503**	500.0	0.6336	100.5	471.0	6.61	10/20/2023
Boron		25.0		**694**	500.0	220.4	94.8	664.4	4.39	10/20/2023
Cadmium		1.0		**46.3**	50.00	0	92.7	43.70	5.86	10/20/2023
Chromium		1.5		**190**	200.0	0	94.8	185.8	2.01	10/20/2023
Iron		25.0		**2030**	2000	123.1	95.5	1987	2.27	10/20/2023
Lead		1.0		**457**	500.0	0	91.4	437.9	4.23	10/20/2023
Manganese		2.0		**986**	500.0	502.9	96.7	927.1	6.20	10/23/2023
Selenium		1.0		**447**	500.0	0	89.4	415.9	7.18	10/20/2023
Zinc		15.0		**435**	500.0	0	87.0	412.9	5.20	10/20/2023

Batch 213380 **SampType:** MS Units **µg/L**

SampID: 23091794-043CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		1.0		**488**	500.0	0	97.5	75	125	10/19/2023
Boron		25.0		**596**	500.0	164.9	86.1	75	125	10/20/2023
Cadmium		1.0		**41.3**	50.00	0	82.7	75	125	10/19/2023
Chromium		1.5		**162**	200.0	0	80.8	75	125	10/19/2023
Iron		25.0		**1800**	2000	52.16	87.3	75	125	10/19/2023
Lead		1.0		**453**	500.0	0	90.7	75	125	10/19/2023
Manganese		2.0		**798**	500.0	314.0	96.9	75	125	10/19/2023
Selenium		1.0		**439**	500.0	0	87.7	75	125	10/20/2023
Zinc		15.0		**382**	500.0	0	76.4	75	125	10/19/2023

Batch 213380 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-043CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		1.0		**489**	500.0	0	97.9	487.7	0.37	10/19/2023
Boron		25.0		**589**	500.0	164.9	84.8	595.6	1.14	10/20/2023
Cadmium		1.0		**42.0**	50.00	0	83.9	41.34	1.48	10/19/2023
Chromium		1.5		**164**	200.0	0	81.8	161.7	1.16	10/19/2023
Iron		25.0		**1780**	2000	52.16	86.3	1797	1.11	10/19/2023
Lead		1.0		**454**	500.0	0	90.8	453.3	0.16	10/19/2023
Manganese		2.0		**795**	500.0	314.0	96.1	798.4	0.49	10/19/2023
Selenium		1.0		**423**	500.0	0	84.5	438.5	3.69	10/20/2023
Zinc		15.0		**382**	500.0	0	76.5	381.9	0.12	10/19/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213410 **SampType:** MBLK Units **µg/L**

SampID: MBLK-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/20/2023
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/19/2023
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/20/2023
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/19/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/19/2023
Iron		25.0		**< 25.0**	11.50	0	0	-100	100	10/19/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/19/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/19/2023
Manganese		2.0		**< 2.0**	0.7500	0	0	-100	100	10/19/2023
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/19/2023
Vanadium		5.0		**< 5.0**	5.000	0	0	-100	100	10/19/2023
Zinc		15.0		**< 15.0**	5.900	0	0	-100	100	10/19/2023

Batch 213410 **SampType:** LCS Units **µg/L**

SampID: LCS-213410

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**454**	500.0	0	90.8	80	120	10/20/2023
Arsenic		1.0		**485**	500.0	0	97.0	80	120	10/19/2023
Boron		25.0		**474**	500.0	0	94.8	80	120	10/20/2023
Cadmium		1.0		**45.6**	50.00	0	91.3	80	120	10/19/2023
Chromium		1.5		**186**	200.0	0	93.0	80	120	10/19/2023
Iron		25.0		**1920**	2000	0	95.8	80	120	10/19/2023
Lead		1.0		**486**	500.0	0	97.1	80	120	10/19/2023
Lead		1.0		**468**	500.0	0	93.7	80	120	10/19/2023
Manganese		2.0		**486**	500.0	0	97.3	80	120	10/19/2023
Selenium		1.0		**426**	500.0	0	85.3	80	120	10/19/2023
Vanadium		5.0		**481**	500.0	0	96.2	80	120	10/19/2023
Zinc		15.0		**435**	500.0	0	87.1	80	120	10/19/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 213410 **SampType:** MS Units **µg/L**

SampID: 23091794-100DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**450**	500.0	0	89.9	75	125	10/20/2023
Arsenic		1.0		**450**	500.0	0	90.0	75	125	10/19/2023
Boron		25.0		**466**	500.0	0	93.1	75	125	10/20/2023
Cadmium		1.0		**43.6**	50.00	0	87.3	75	125	10/19/2023
Chromium		1.5		**172**	200.0	0	85.8	75	125	10/19/2023
Iron		25.0		**1870**	2000	0	93.3	75	125	10/20/2023
Lead		1.0		**426**	500.0	0	85.2	75	125	10/19/2023
Manganese		2.0		**460**	500.0	0	92.0	75	125	10/20/2023
Selenium		1.0		**386**	500.0	0	77.2	75	125	10/19/2023
Vanadium		5.0		**447**	500.0	0	89.5	75	125	10/19/2023
Zinc		15.0		**400**	500.0	0	80.0	75	125	10/19/2023

Batch 213410 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-100DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**441**	500.0	0	88.2	449.6	1.87	10/20/2023
Arsenic		1.0		**469**	500.0	0	93.8	449.9	4.16	10/19/2023
Boron		25.0		**469**	500.0	0	93.9	465.5	0.82	10/20/2023
Cadmium		1.0		**44.0**	50.00	0	88.0	43.65	0.85	10/19/2023
Chromium		1.5		**180**	200.0	0	90.2	171.7	4.99	10/19/2023
Iron		25.0		**1840**	2000	0	92.0	1867	1.48	10/20/2023
Lead		1.0		**431**	500.0	0	86.2	426.1	1.12	10/19/2023
Manganese		2.0		**460**	500.0	0	92.0	460.0	0.05	10/20/2023
Selenium		1.0		**391**	500.0	0	78.1	385.9	1.21	10/19/2023
Vanadium		5.0		**463**	500.0	0	92.6	447.3	3.46	10/19/2023
Zinc		15.0		**425**	500.0	0	85.0	400.2	5.99	10/19/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213214 **SampType:** MBLK Units µg/L

SampID: MBLK-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/13/2023
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/13/2023
Barium		1.0		**< 1.0**	0.7000	0	0	-100	100	10/13/2023
Beryllium		1.0		**< 1.0**	0.2500	0	0	-100	100	10/16/2023
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/13/2023
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/13/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/13/2023
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	10/13/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/13/2023
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	10/13/2023
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	10/13/2023
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/13/2023
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	10/13/2023

Batch 213214 **SampType:** LCS Units µg/L

SampID: LCS-213214

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**501**	500.0	0	100.2	80	120	10/13/2023
Arsenic		1.0		**514**	500.0	0	102.7	80	120	10/13/2023
Barium		1.0		**2250**	2000	0	112.4	80	120	10/13/2023
Beryllium		1.0		**44.4**	50.00	0	88.9	80	120	10/16/2023
Boron		25.0		**447**	500.0	0	89.4	80	120	10/16/2023
Cadmium		1.0		**46.3**	50.00	0	92.6	80	120	10/13/2023
Chromium		1.5		**193**	200.0	0	96.7	80	120	10/13/2023
Cobalt		1.0		**496**	500.0	0	99.1	80	120	10/18/2023
Lead		1.0		**493**	500.0	0	98.6	80	120	10/13/2023
Lithium	*	3.0		**456**	500.0	0	91.3	80	120	10/16/2023
Molybdenum		1.5		**483**	500.0	0	96.7	80	120	10/13/2023
Selenium		1.0		**474**	500.0	0	94.7	80	120	10/13/2023
Thallium		2.0		**235**	250.0	0	94.1	80	120	10/16/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213214 **SampType:** MS Units **µg/L**

SampID: 23091794-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**447**	500.0	0.6869	89.2	75	125	10/16/2023
Arsenic		1.0		**560**	500.0	67.41	98.4	75	125	10/13/2023
Barium		1.0		**1830**	2000	65.16	88.0	75	125	10/13/2023
Beryllium		1.0		**46.5**	50.00	0.6711	91.6	75	125	10/16/2023
Boron		25.0	S	**13500**	500.0	12170	273.5	75	125	10/16/2023
Cadmium		1.0		**39.5**	50.00	0	78.9	75	125	10/13/2023
Chromium		1.5		**188**	200.0	10.14	88.8	75	125	10/13/2023
Cobalt		2.0		**450**	500.0	1.584	89.7	75	125	10/18/2023
Lead		2.0		**413**	500.0	5.555	81.5	75	125	10/18/2023
Lithium	*	3.0		**569**	500.0	58.04	102.2	75	125	10/16/2023
Molybdenum		1.5		**675**	500.0	225.8	89.8	75	125	10/13/2023
Selenium		2.0		**446**	500.0	44.81	80.3	75	125	10/18/2023
Thallium		4.0		**209**	250.0	0	83.7	75	125	10/18/2023

Batch 213214 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-095BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**452**	500.0	0.6869	90.2	446.8	1.08	10/16/2023
Arsenic		1.0		**563**	500.0	67.41	99.2	559.6	0.67	10/13/2023
Barium		1.0		**1870**	2000	65.16	90.1	1825	2.31	10/13/2023
Beryllium		1.0		**45.7**	50.00	0.6711	90.1	46.46	1.57	10/16/2023
Boron		25.0	S	**13300**	500.0	12170	217.7	13540	2.08	10/16/2023
Cadmium		1.0		**39.7**	50.00	0	79.4	39.47	0.60	10/13/2023
Chromium		1.5		**186**	200.0	10.14	87.7	187.7	1.15	10/13/2023
Cobalt		2.0		**441**	500.0	1.584	87.8	450.2	2.18	10/18/2023
Lead		2.0		**406**	500.0	5.555	80.2	412.8	1.55	10/18/2023
Lithium	*	3.0		**555**	500.0	58.04	99.3	569.2	2.60	10/16/2023
Molybdenum		1.5		**725**	500.0	225.8	99.9	674.7	7.25	10/13/2023
Selenium		2.0		**440**	500.0	44.81	79.0	446.5	1.47	10/18/2023
Thallium		4.0		**207**	250.0	0	82.8	209.3	1.05	10/18/2023

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Quality Control Results

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Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213222 **SampType:** MBLK Units µg/L

SampID: MBLK-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/13/2023
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/13/2023
Barium		1.0		**< 1.0**	0.7000	0	0	-100	100	10/13/2023
Beryllium		1.0		**< 1.0**	0.2500	0	0	-100	100	10/13/2023
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/13/2023
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/13/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/13/2023
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	10/13/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/13/2023
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	10/13/2023
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	10/13/2023
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/13/2023
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	10/13/2023

Batch 213222 **SampType:** LCS Units µg/L

SampID: LCS-213222

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**486**	500.0	0	97.2	80	120	10/13/2023
Arsenic		1.0		**487**	500.0	0	97.5	80	120	10/13/2023
Barium		1.0		**2290**	2000	0	114.4	80	120	10/13/2023
Beryllium		1.0		**48.9**	50.00	0	97.9	80	120	10/13/2023
Boron		25.0		**506**	500.0	0	101.2	80	120	10/13/2023
Cadmium		1.0		**45.4**	50.00	0	90.8	80	120	10/13/2023
Chromium		1.5		**190**	200.0	0	95.1	80	120	10/13/2023
Lead		1.0		**485**	500.0	0	96.9	80	120	10/13/2023
Molybdenum		1.5		**467**	500.0	0	93.4	80	120	10/13/2023
Selenium		1.0		**457**	500.0	0	91.4	80	120	10/13/2023
Thallium		2.0		**248**	250.0	0	99.0	80	120	10/13/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213222 **SampType:** MS Units **µg/L**

SampID: 23091794-098BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**433**	500.0	0	86.6	75	125	10/13/2023
Arsenic		1.0		**498**	500.0	40.52	91.5	75	125	10/13/2023
Barium		1.0		**1950**	2000	113.6	91.9	75	125	10/13/2023
Beryllium		1.0		**41.3**	50.00	0	82.7	75	125	10/13/2023
Boron		50.0		**3610**	500.0	3070	107.3	75	125	10/20/2023
Cadmium		2.0		**39.0**	50.00	0	78.0	75	125	10/18/2023
Chromium		1.5		**182**	200.0	12.83	84.4	75	125	10/13/2023
Cobalt		1.0		**462**	500.0	0.5650	92.3	75	125	10/13/2023
Lithium	*	6.0		**515**	500.0	26.01	97.9	75	125	10/20/2023
Molybdenum		3.0		**1110**	500.0	629.2	95.8	75	125	10/18/2023
Selenium		2.0		**486**	500.0	103.8	76.4	75	125	10/18/2023
Thallium		2.0		**211**	250.0	0	84.5	75	125	10/13/2023

Batch 213222 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23091794-098BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		1.0		**422**	500.0	0	84.4	433.2	2.56	10/13/2023
Arsenic		1.0		**513**	500.0	40.52	94.5	497.9	2.96	10/13/2023
Barium		1.0		**2000**	2000	113.6	94.2	1952	2.32	10/13/2023
Beryllium		1.0		**40.2**	50.00	0	80.4	41.34	2.79	10/13/2023
Boron		50.0		**3550**	500.0	3070	96.4	3607	1.51	10/20/2023
Cadmium		2.0		**40.8**	50.00	0	81.6	39.01	4.44	10/18/2023
Chromium		1.5		**181**	200.0	12.83	83.9	181.7	0.60	10/13/2023
Cobalt		1.0		**468**	500.0	0.5650	93.5	462.0	1.34	10/13/2023
Lithium	*	6.0		**505**	500.0	26.01	95.8	515.3	2.06	10/20/2023
Molybdenum		3.0		**1110**	500.0	629.2	96.7	1108	0.40	10/18/2023
Selenium		2.0		**486**	500.0	103.8	76.5	485.8	0.10	10/18/2023
Thallium		2.0		**206**	250.0	0	82.6	211.4	2.37	10/13/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213274 **SampType:** MBLK Units µg/L

SampID: MBLK-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**< 1.0**	0.4500	0	0	-100	100	10/16/2023
Arsenic		1.0		**< 1.0**	0.3750	0	0	-100	100	10/16/2023
Barium		1.0		**< 1.0**	0.7000	0	0	-100	100	10/16/2023
Beryllium		1.0		**< 1.0**	0.2500	0	0	-100	100	10/16/2023
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/16/2023
Cadmium		1.0		**< 1.0**	0.1340	0	0	-100	100	10/16/2023
Chromium		1.5		**< 1.5**	0.7000	0	0	-100	100	10/16/2023
Cobalt		1.0		**< 1.0**	0.1150	0	0	-100	100	10/16/2023
Iron		25.0		**< 25.0**	11.50	0	0	-100	100	10/18/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/16/2023
Lithium	*	3.0		**< 3.0**	1.450	0	0	-100	100	10/16/2023
Manganese		2.0		**< 2.0**	0.7500	0	0	-100	100	10/18/2023
Molybdenum		1.5		**< 1.5**	0.6000	0	0	-100	100	10/16/2023
Selenium		1.0		**< 1.0**	0.6000	0	0	-100	100	10/16/2023
Thallium		2.0		**< 2.0**	0.9500	0	0	-100	100	10/16/2023

Batch 213274 **SampType:** LCS Units µg/L

SampID: LCS-213274

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		1.0		**502**	500.0	0	100.3	80	120	10/16/2023
Arsenic		1.0		**523**	500.0	0	104.5	80	120	10/16/2023
Barium		1.0		**2260**	2000	0	113.0	80	120	10/16/2023
Beryllium		1.0		**48.7**	50.00	0	97.3	80	120	10/16/2023
Boron		25.0		**503**	500.0	0	100.7	80	120	10/16/2023
Cadmium		1.0		**48.2**	50.00	0	96.4	80	120	10/16/2023
Chromium		1.5		**181**	200.0	0	90.5	80	120	10/16/2023
Cobalt		1.0		**483**	500.0	0	96.5	80	120	10/16/2023
Iron		25.0		**2000**	2000	0	99.9	80	120	10/18/2023
Lead		1.0		**492**	500.0	0	98.3	80	120	10/16/2023
Lithium	*	3.0		**521**	500.0	0	104.2	80	120	10/16/2023
Manganese		2.0		**488**	500.0	0	97.7	80	120	10/18/2023
Molybdenum		1.5		**481**	500.0	0	96.3	80	120	10/16/2023
Selenium		1.0		**497**	500.0	0	99.5	80	120	10/16/2023
Thallium		2.0		**235**	250.0	0	94.1	80	120	10/16/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll
Work Order: 23091794
Client Project: NEW-23Q4
Report Date: 17-Nov-23

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 213274 **SampType:** MS Units µg/L
SampID: 23091794-047BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		**583**	500.0	113.0	93.9	75	125	10/16/2023

Batch 213274 **SampType:** MSD Units µg/L RPD Limit: 20
SampID: 23091794-047BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		25.0		**588**	500.0	113.0	94.9	582.7	0.84	10/16/2023

Batch 213566 **SampType:** MBLK Units µg/L
SampID: MBLK-213566

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		**< 25.0**	9.250	0	0	-100	100	10/25/2023
Lead		1.0		**< 1.0**	0.6000	0	0	-100	100	10/24/2023

Batch 213566 **SampType:** LCS Units µg/L
SampID: LCS-213566

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		25.0		**476**	500.0	0	95.2	80	120	10/25/2023
Lead		1.0		**496**	500.0	0	99.2	80	120	10/24/2023

Batch 213566 **SampType:** MS Units µg/L
SampID: 23091794-098BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lead		1.0	S	**201**	500.0	0	40.2	75	125	10/24/2023

Batch 213566 **SampType:** MSD Units µg/L RPD Limit: 20
SampID: 23091794-098BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lead		1.0	S	**198**	500.0	0	39.5	201.2	1.74	10/24/2023

SW-846 7470A (DISSOLVED)

Batch 213442 **SampType:** MS Units µg/L
SampID: 23091794-041CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20	S	**1.98**	5.000	0	39.5	75	125	10/19/2023

Teklab, Inc. Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 7470A (DISSOLVED)

Batch 213442 **SampType:** MSD Units µg/L RPD Limit: 15

SampID: 23091794-041CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20	S	**1.87**	5.000	0	37.4	1.976	5.50	10/19/2023

Batch 213443 **SampType:** MS Units µg/L

SampID: 23091794-049CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.86**	5.000	0	97.1	75	125	10/19/2023

Batch 213443 **SampType:** MSD Units µg/L RPD Limit: 15

SampID: 23091794-049CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**4.80**	5.000	0	96.0	4.857	1.20	10/19/2023

SW-846 7470A (TOTAL)

Batch 213366 **SampType:** MBLK Units µg/L

SampID: MBLK-213366

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/18/2023

Batch 213366 **SampType:** LCS Units µg/L

SampID: LCS-213366

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.97**	5.000	0	99.4	85	115	10/18/2023

Batch 213366 **SampType:** MS Units µg/L

SampID: 23091794-008BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.04**	5.000	0	100.9	75	125	10/18/2023

Batch 213366 **SampType:** MSD Units µg/L RPD Limit: 15

SampID: 23091794-008BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**4.93**	5.000	0	98.6	5.043	2.25	10/18/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 7470A (TOTAL)

Batch 213442 **SampType:** MBLK Units µg/L
SampID: MBLK-213442

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/19/2023

Batch 213442 **SampType:** LCS Units µg/L
SampID: LCS-213442

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.51**	5.000	0	90.2	85	115	10/19/2023

Batch 213442 **SampType:** MS Units µg/L
SampID: 23091794-015BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.78**	5.000	0	95.6	75	125	10/19/2023

Batch 213442 **SampType:** MSD Units µg/L RPD Limit: **15**
SampID: 23091794-015BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**4.83**	5.000	0	96.5	4.781	0.94	10/19/2023

Batch 213443 **SampType:** MBLK Units µg/L
SampID: MBLK-213443

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/19/2023

Batch 213443 **SampType:** LCS Units µg/L
SampID: LCS-213443

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**5.03**	5.000	0	100.6	85	115	10/19/2023

Batch 213443 **SampType:** MS Units µg/L
SampID: 23091794-091CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.72**	5.000	0	94.4	75	125	10/19/2023

Batch 213443 **SampType:** MSD Units µg/L RPD Limit: **15**
SampID: 23091794-091CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20		**4.77**	5.000	0	95.4	4.720	1.06	10/19/2023

Teklab, Inc.
Environmental Laboratory

Quality Control Results

http://www.teklabinc.com/

Client: Ramboll **Work Order:** 23091794

Client Project: NEW-23Q4 **Report Date:** 17-Nov-23

SW-846 7470A (TOTAL)

Batch 213444 **SampType:** MBLK Units **µg/L**
SampID: MBLK-213444

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/19/2023

Batch 213444 **SampType:** LCS Units **µg/L**
SampID: LCS-213444

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.95**	5.000	0	99.1	85	115	10/19/2023

Batch 213626 **SampType:** MBLK Units **µg/L**
SampID: MBLK-213626

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**< 0.20**	0.0550	0	0	-100	100	10/24/2023

Batch 213626 **SampType:** LCS Units **µg/L**
SampID: LCS-213626

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20		**4.64**	5.000	0	92.7	85	115	10/24/2023

Batch 213626 **SampType:** MS Units **µg/L**
SampID: 23091794-095BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.20	S	**7.98**	5.000	6.553	28.6	75	125	10/24/2023

Batch 213626 **SampType:** MSD Units **µg/L** RPD Limit: **15**
SampID: 23091794-095BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.20	S	**7.79**	5.000	6.553	24.7	7.982	2.47	10/24/2023

Teklab, Inc. Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll

Work Order: 23091794

Client Project: NEW-23Q4

Report Date: 17-Nov-23

Carrier: Employee

Received By: TWM

Completed by: Lindsey Maddox
On: 12-Oct-23

Reviewed by: Ellie Hopkins
On: 13-Oct-23

Pages to follow: Chain of custody 16 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 3.2
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - TWM/lmaddox - 10/12/2023 9:56:08 AM

Additional nitric acid (92447) was needed in APW04, APW05, APW14, XPW01, and APW02 Duplicate upon arrival at the laboratory. - TWM/lmaddox - 10/12/2023 9:56:28 AM

Additional Nitric Acid (93387) was needed in PW12, G06D, G125, G128, G202, G230, L1R and G06D Dup upon arrival at the laboratory. Additional Sulfuric Acid (90128) was needed in L1R and R219 upon arrival at the laboratory. L1R was filtered and preserved with Nitric Acid (93387) and Sulfuric Acid (90128) for the dissolved parameters upon arrival at the laboratory. pH strip #79929/90719. - amberdilallo - 10/13/2023 9:58:00 AM

Additional Sulfuric Acid (90128) was needed in S101 upon arrival at the laboratory. S101 and S102 were filtered and preserved with Nitric Acid (93387) and Sulfuric Acid (90128) for the dissolved parameters upon arrival at the laboratory. pH strip #79929/90719. - amberdilallo - 10/13/2023 9:59:46 AM

Samples collected on 10/11/23 were delivered to the laboratory on 10/12/23 at 1230 (on ice - 2.2C - LTG1). AMD/ERH 10/13/23

Samples collected on 10/12/23 were delivered to the laboratory on 10/12/23 at 1702 (on ice - 5.0C - LTG5). AMD/ERH 10/13/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

23091794

Page: 1 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St
	Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com
	Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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)

* ADDED HNO3 TO TOTAL (92447) TM CONT.

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0													✓				23091794-001
2	A213						5	2	1	1	X	1							✓					002
3	A214						5	2	1	1	X	1							✓					003
4	A215						5	2	1	1	X	1							✓					004
5	APW02			10-10-23	1156		4	2		2	TE	EMM					✓				✓	✓		005
6	APW03				1400		4	2		2		9/19/18					✓				✓	✓		006
7	APW04 *			↓	1523		4	2		2							✓				✓	✓		007
8	APW05 *			10/10/23	1118		2	1		1							✓				✓			008
9	APW05S			10/10/23	1042		2	1		1							✓				✓			009
10	APW06			10/10/23	1007		2	1		1							✓				✓			010
11	APW07			10-10-23	1106		2	1		1							✓				✓			011
12	APW08				1215		2	1		1							✓				✓			012
13	APW09				1345		2	1		1							✓				✓			013
14	APW10			↓	1505		2	1		1							✓				✓			014
15	APW11			10/10/23	1502		2	1		1							✓				✓			015
16	APW12						2	1		1							✓				✓			016

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q4 Rev 0		10/11/23	1325		10-11-23	1325	5	Y	N	
		10-11-23	1500		10-11-23	1500	3.2			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Chard

SIGNATURE of SAMPLER: Tracy Chard DATE Signed (MM/DD/YY): 10/10/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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23091794

Page: 2 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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		

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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13			10-10-23	1444		2	1		1							✓				✓			23091794-017
2	APW14 *				1421		2	1		1							✓				✓			018
3	APW15				1316		2	1		1							✓				✓			019
4	APW16				1239		2	1		1							✓				✓			020
5	APW17				1126		2	1		1							✓				✓			021
6	APW18				1045		2	1		1							✓				✓			022
7	G06D						2	1		1								✓						023
8	G104						5	2	1	1	✓	1								✓				024
9	G104D						0				Trip blank									✓				025
10	G104S						0													✓				026
11	G105						5	2	1	1		1								✓				027
12	G106						5	2	1	1		1								✓				028
13	G109						0													✓				029
14	G111						0													✓				030
15	G112						0													✓				031
16	G113						0													✓				032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Isaac Conrad	10/10/23	1325		10.11.23	1325	
		10.11.23	1500		10.11.23	1500	

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:	Isaac Conrad					
SIGNATURE of SAMPLER:	Isaac Conrad	DATE Signed (MM/DD/YY): 10/10/23				

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-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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		

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 #	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 ↓	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	M26-7						0													✓				23091794-081
2	MW31S						0													✓				082
3	MW33S						0													✓				083
4	MW35S						0													✓				084
5	MW36S						0													✓				085
6	MW48S						0													✓				086
7	R216						0													✓				087
8	R217D						5	2	1	1		1							✓					088
9	R219						5	2	1	1		1							✓					089
10	S101						7	2	2	2		1								✓				090
11	S102						7	2	2	2		1								✓				091
12	SG02						0									✓					✓			092
13	T101						7	2	2	2		1								✓				093
14	T102						7	2	2	2		1								✓				094
15	XPW01 *			10-10-23	1018		2	1		1											✓			095
16	XPW02			10-10-23	0926		2	1		1											✓			096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/11/23	1325	Paul Smith	10.11.23	1325	
	Paul Smith	10.11.23	1500		10/11/23	1500	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/10/23

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.

Page: 7 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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

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 #	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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	XPW03			10/10/23	1223		2	1		1											✓			23091994-097
2	XPW04			10/10/23	1320 ~~1253~~ TC		2	1		1											✓			098
3	XSG01						0										✓				✓			099
4	Field Blank						8	2	3	2		1					✓	✓	✓	✓	✓	✓		100
5	A213 Duplicate						5	2	1	1		1							✓					101
6	APW02 Duplicate ~~AC~~			10-10-23	1156		4	2		2							✓				✓	✓		102
7	G06D Duplicate						2	1		1								✓						103
8	G104 Duplicate						5	2	1	1		1								✓				104
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/11/23	1325		10.11.23	1325	
		10-11-23	1500		10-11-23	1500	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/10/23

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

23091794

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-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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

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	Y/N	Analysis Test: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0													✓				23091794-001
2	A213			10-11-23	1208		5	2	1	1	X	1							✓					002
3	A214						5	2	1	1	X	1							✓					003
4	A215						5	2	1	1	X	1							✓					004
5	APW02						4	2		2	TSP 6mA						✓			✓	✓			005
6	APW03						4	2		2		7/1/23					✓			✓	✓			006
7	APW04						4	2		2							✓			✓	✓			007
8	APW05						2	1		1							✓			✓				008
9	APW05S						2	1		1							✓			✓				009
10	APW06						2	1		1							✓			✓				010
11	APW07						2	1		1							✓			✓				011
12	APW08						2	1		1							✓			✓				012
13	APW09						2	1		1							✓			✓				013
14	APW10						2	1		1							✓			✓				014
15	APW11						2	1		1							✓			✓				015
16	APW12			10/11/23	931		2	1		1							✓			✓				016

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)
NEW-23Q4 Rev 0	Tracy Hanratty	10/12/23	1020		10/12	1030	2.2	Y	N	Y
		10/12/23	1230		10/12/23	1230				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Hanratty

SIGNATURE of SAMPLER: Tracy Hanratty DATE Signed (MM/DD/YY): 10/11/23

Added HNO3 (93387) to APW12, G060D, G125, G125, G202, G230, LIR, & G060D DUP. Added H2SO4 (98128) to LIR & R219 pH ✓ 7999/9079

LTG1

Confidential

23091794

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						2	1		1						✓				✓			23091794-017
2	APW14						2	1		1						✓				✓			018
3	APW15						2	1		1						✓				✓			019
4	APW16						2	1		1						✓				✓			020
5	APW17						2	1		1						✓				✓			021
6	APW18						2	1		1						✓				✓			022
7	G06D			10-11-23	1342		2	1		1							✓						023
8	G104			10-11-23	1540		5	2	1	1	X	1							✓				024
9	G104D						0				TF 6mL 2.5%HNO3								✓				025
10	G104S						0												✓				026
11	G105						5	2	1	1		1							✓				027
12	G106			10-11-23	1415		5	2	1	1		1							✓				028
13	G109						0												✓				029
14	G111						0												✓				030
15	G112						0												✓				031
16	G113						0												✓				032

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/1/23	1030		10/2	10/3?	
		10/2/23	1230		10/2/23	1230	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 10/1/23

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

2309194

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St
	Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com
	Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G114						0													✓				2309194-033
2	G115						0													✓				034
3	G116						5	2	1	1		1								✓		✓		035
4	G117						0													✓				036
5	G118						0													✓				037
6	G119						0													✓				038
7	G120						0													✓				039
8	G125			10-11-23	1048		5	2	1	1		1								✓				040
9	G128			10-11-23	1445		5	2	1	1		1								✓				041
10	G130						5	2	1	1		1								✓				042
11	G133						5	2	1	1		1								✓				043
12	G136						5	2	1	1		1								✓				044
13	G139						5	2	1	1		1								✓				045
14	G141						5	2	1	1		1								✓				046
15	G202			10/11/23	1340		2	1		1								✓						047
16	G208						0												✓					048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/12	1030		10/12	1030	
		10/12	1230		10/12/23	1230	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 10/11/23

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

Confidential

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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		

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G217S			10-11-23	0922		5	2	1	1		1							✓					23091794-049
2	G218						0												✓					050
3	G220						0												✓					051
4	G221			10-11-23	1247		5	2	1	1		1							✓					052
5	G222						0												✓					053
6	G223						0												✓					054
7	G224						0												✓					055
8	G225						5	2	1	1		1							✓					056
9	G230			10/11/23	1444		6	2	1	2		1						✓	✓					057
10	G231			10/11/23	1524		5	2	1	1		1							✓					058
11	G232			10/11/23	1608		5	2	1	1		1							✓					059
12	G233						5	2	1	1		1							✓					060
13	G234						5	2	1	1		1							✓					061
14	✕ L1R			10/11/23	1037		7	2	2	2		1								✓				062
15	L201						0													✓				063
16	L202						0													✓				064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/12	1030		10/12	1030	
		10/12	1230		10/12	1230	

✕ Filtered in Lab-TC 10/12/23

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/11/23

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

23091794

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:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Newton	Report To: Brian Voelker	Attention: Terry Hanratty
Address: 6725 N 500th St	Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name: Vistra Corp
Newton, IL 62448	Sam Davies - samantha.davies@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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	M26-7						0													✓				23091794 - 081
2	MW31S						0													✓				082
3	MW33S						0													✓				083
4	MW35S						0													✓				084
5	MW36S						0													✓				085
6	MW48S						0													✓				086
7	R216						0													✓				087
8	R217D			10/11/23	1857		5	2	1	1		1							✓					088
9	R219			10-11-23	1509		5	2	1	1		1							✓					089
10	S101						7	2	2	2		1								✓				090
11	S102						7	2	2	2		1								✓				091
12	SG02						0										✓				✓			092
13	T101						7	2	2	2		1								✓				093
14	T102						7	2	2	2		1								✓				094
15	XPW01						2	1		1											✓			095
16	XPW02						2	1		1											✓			096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/12	1030		10/12	1030	
		10/12	1230		10/12/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

DATE Signed (MM/DD/YY): 10/11/23

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

NEW-257-501

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	XPW03						2	1		1											✓			23091794-097
2	XPW04						2	1		1											✓			098
3	XSG01						0										✓				✓			099
4	Field Blank						8	2	3	2		1					✓	✓	✓	✓	✓	✓		100
5	A213 Duplicate			10-11-23	1208		5	2	1	1		1							✓					101
6	APW02 Duplicate						4	2		2							✓				✓	✓		102
7	G06D Duplicate			10-11-23	1342		2	1		1								✓						103
8	G104 Duplicate			10/11/23	1540		5	2	1	1		1								✓				104
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								

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
NEW-23Q4 Rev 0	Tracy Carroll	10/11/23	1030		10/12/23	0945	
		10/11/23	1230		10/19/23	1230	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/11/23

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

G104 Duplicate collection date/time per G104 markings. EAH 10/19/23

23091794

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:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207						0													✓				23091794-001
2	A213						5	2	1	1	X	1							✓					002
3	A214			10-12-23	1058		5	2	1	1	X	1							✓					003
4	A215			10-12-23	1020		5	2	1	1	X	1							✓					004
5	APW02						4	2		2	TE	EDTA					✓				✓	✓		005
6	APW03						4	2		2			7/1/16	1%			✓				✓	✓		006
7	APW04						4	2		2							✓				✓	✓		007
8	APW05						2	1		1							✓				✓			008
9	APW05S						2	1		1							✓				✓			009
10	APW06						2	1		1							✓				✓			010
11	APW07						2	1		1							✓				✓			011
12	APW08						2	1		1							✓				✓			012
13	APW09						2	1		1							✓				✓			013
14	APW10						2	1		1							✓				✓			014
15	APW11						2	1		1							✓				✓			015
16	APW12						2	1		1							✓				✓			016

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)
NEW-23Q4 Rev 0	Tracy Carroll	10/12/23	1702	Samantha Davies	10/12/23	1702	4.6+0.5	Y	N	Y
							1.5-0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/12/23

* Filter In Lab. TAC 10/12/23
TE Added HNO3 (93387)
H2SO4 (90128) to SJ01.
PHV 7929/90719 GM 10/13/23

Confidential

23091794

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 7

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Newton	Report To: Brian Voelker	Attention: Terry Hanratty
Address: 6725 N 500th St	Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name: Vistra Corp
Newton, IL 62448	Sam Davies - samantha.davies@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

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 #	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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13						2	1		1						✓				✓			23091794-017
2	APW14						2	1		1						✓				✓			018
3	APW15						2	1		1						✓				✓			019
4	APW16						2	1		1						✓				✓			020
5	APW17						2	1		1						✓				✓			021
6	APW18						2	1		1						✓				✓			022
7	G06D						2	1		1							✓						023
8	G104						5	2	1	1	✓	1							✓				024
9	G104D						0				TB								✓				025
10	G104S						0												✓				026
11	G105			10/12/23	1121		5	2	1	1		1							✓				027
12	G106						5	2	1	1		1							✓				028
13	G109						0												✓				029
14	G111						0												✓				030
15	G112						0												✓				031
16	G113						0												✓				032

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Hanratty	10/12/23	1702	Samantha Davies	10/12/23	1702	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Hanratty

SIGNATURE of SAMPLER: Tracy Hanratty DATE Signed (MM/DD/YY): 10/12/23

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

23091794

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-Newton	Report To: Brian Voelker	Attention: Terry Hanratty
Address: 6725 N 500th St	Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name: Vistra Corp
Newton, IL 62448	Sam Davies - samantha.davies@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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G114						0													✓				23091794-033
2	G115						0													✓				034
3	G116			10/12/23	1434		5	2	1	1		1								✓		✓		035
4	G117						0													✓				036
5	G118						0													✓				037
6	G119						0													✓				038
7	G120						0													✓				039
8	G125						5	2	1	1		1								✓				040
9	G128						5	2	1	1		1								✓				041
10	G130			10-12-23	1219		5	2	1	1		1								✓				042
11	G133			10-12-23	1141		5	2	1	1		1								✓				043
12	G136			10/12/23	1301		5	2	1	1		1								✓				044
13	G139			10/12/23	1222		5	2	1	1		1								✓				045
14	G141			10-12-23	0917		5	2	1	1		1								✓				046
15	G202						2	1		1								✓						047
16	G208						0												✓					048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/12/23	1702	Brian Colwell	10/12/23	1702	

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:	Tracy Carroll					
SIGNATURE of SAMPLER:	Tracy Carroll	DATE Signed (MM/DD/YY): 10/12/23				

NEW-257-5014

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St
	Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com
	Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G217S						5	2	1	1		1							✓					23091794-049
2	G218						0												✓					050
3	G220						0												✓					051
4	G221						5	2	1	1		1							✓					052
5	G222						0												✓					053
6	G223						0												✓					054
7	G224						0												✓					055
8	G225			10-12-23	0942		5	2	1	1		1							✓					056
9	G230						6	2	1	2		1						✓	✓					057
10	G231						5	2	1	1		1							✓					058
11	G232						5	2	1	1		1							✓					059
12	G233			10/12/23	953		5	2	1	1		1							✓					060
13	G234			10/12/23	1027		5	2	1	1		1							✓					061
14	L1R						7	2	2	2		1								✓				062
15	L201						0													✓				063
16	L202						0													✓				064

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Gerrard	10/12/23	1702	Emily Dibello	10/13/23	1702	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Gerrard

SIGNATURE of SAMPLER: Tracy Gerrard DATE Signed (MM/DD/YY): 10/12/23

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

23091794

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 6 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St
	Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com
	Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	M26-7						0													✓				23091794-081
2	MW31S						0													✓				082
3	MW33S						0													✓				083
4	MW35S						0													✓				084
5	MW36S						0													✓				085
6	MW48S						0													✓				086
7	R216						0													✓				087
8	R217D						5	2	1	1		1							✓					088
9	R219						5	2	1	1		1							✓					089
10	S101			10/12/23	1353		7	2	2	2		1								✓				090
11	S102			10/12/23	1322		7	2	2	2		1								✓				091
12	SG02						0										✓				✓			092
13	T101 went DRY			10-12-23	DRY		7	2	2	2		1								✓				093
14	T102 went DRY			10-12-23	DRY		7	2	2	2		1								✓				094
15	XPW01						2	1		1											✓			095
16	XPW02						2	1		1											✓			096

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Hazard	10/12/23	1702	Damon DeSalle	10/13/23	1702	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Hazard

SIGNATURE of SAMPLER: Tracy Hazard

DATE Signed (MM/DD/YY): 10/12/23

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.

Page: 7 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	XPW03						2	1		1											✓			23091794-097
2	XPW04						2	1		1											✓			098
3	XSG01						0										✓				✓			099
4	Field Blank			10-12-23	1345		8	2	3	2		1					✓	✓	✓	✓	✓	✓		100
5	A213 Duplicate						5	2	1	1		1							✓					101
6	APW02 Duplicate						4	2		2							✓				✓	✓		102
7	G06D Duplicate						2	1		1								✓						103
8	G104 Duplicate						5	2	1	1		1								✓				104
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/12/23	1702	Vistra Oquawka	10/13/23	1101	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/12/23

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

Confidential

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

November 16, 2023

Eric Bauer
Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
TEL: (414) 837-3607
FAX: (414) 837-3608

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: NEW-23Q4 **WorkOrder:** 23091795

Dear Eric Bauer:

TEKLAB, INC received 24 samples on 10/12/2023 5:02:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Elizabeth A. Hurley

Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com

Report Contents

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

Client: Ramboll
Client Project: NEW-23Q4

Work Order: 23091795
Report Date: 16-Nov-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Sample Summary	31
Dates Report	32
Receiving Check List	34
Chain of Custody	Appended

Definitions

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

Client: Ramboll
Client Project: NEW-23Q4

Work Order: 23091795
Report Date: 16-Nov-23

Cooler Receipt Temp: 3.2 °C

An employee of Teklab, Inc. collected the sample(s).

Analyses were completed by Eurofins St. Louis. See attached report for results and QC.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Accreditations

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-001
Client Sample ID: APW02
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:17	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-002
Client Sample ID: APW03
Matrix: GROUNDWATER
Collection Date: 10/10/2023 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:17	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-003
Client Sample ID: APW04
Matrix: GROUNDWATER
Collection Date: 10/10/2023 15:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:18	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-004
Client Sample ID: APW05
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:18	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-005 **Client Sample ID:** APW05S

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 10:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:18	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-006
Client Sample ID: APW06
Matrix: GROUNDWATER
Collection Date: 10/10/2023 10:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:19	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-007 **Client Sample ID:** APW07

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 11:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:19	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-008
Client Sample ID: APW08
Matrix: GROUNDWATER
Collection Date: 10/10/2023 12:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:19	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-009
Client Sample ID: APW09
Matrix: GROUNDWATER
Collection Date: 10/10/2023 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:19	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-010 **Client Sample ID:** APW10

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 15:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:19	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-011
Client Sample ID: APW11
Matrix: GROUNDWATER
Collection Date: 10/10/2023 15:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:20	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-012
Client Sample ID: APW12
Matrix: GROUNDWATER
Collection Date: 10/11/2023 9:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-013 **Client Sample ID:** APW13

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 14:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-014
Client Sample ID: APW14
Matrix: GROUNDWATER
Collection Date: 10/10/2023 14:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-015 **Client Sample ID:** APW15

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 13:16

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-016 **Client Sample ID:** APW16

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 12:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-017
Client Sample ID: APW17
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-018
Client Sample ID: APW18
Matrix: GROUNDWATER
Collection Date: 10/10/2023 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-019
Client Sample ID: XPW01
Matrix: GROUNDWATER
Collection Date: 10/10/2023 10:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-020 **Client Sample ID:** XPW02

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 9:26

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:26	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-021 **Client Sample ID:** XPW03

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 12:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:29	R339336

Laboratory Results

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Lab ID: 23091795-022 **Client Sample ID:** XPW04

Matrix: GROUNDWATER **Collection Date:** 10/10/2023 13:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/09/2023 13:41	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-023
Client Sample ID: Field Blank
Matrix: GROUNDWATER
Collection Date: 10/12/2023 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:27	R339336

Laboratory Results

Client: Ramboll
Work Order: 23091795
Client Project: NEW-23Q4
Report Date: 16-Nov-23
Lab ID: 23091795-024
Client Sample ID: APW02 Duplicate
Matrix: GROUNDWATER
Collection Date: 10/10/2023 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SEE ATTACHED FOR SUBCONTRACTING ANALYSIS								
Subcontracted Analysis	*	0		**See Attached**		1	11/03/2023 15:27	R339336

Sample Summary

Client: Ramboll
Client Project: NEW-23Q4

Work Order: 23091795
Report Date: 16-Nov-23

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
23091795-001	APW02	Groundwater	1	10/10/2023 11:56
23091795-002	APW03	Groundwater	1	10/10/2023 14:00
23091795-003	APW04	Groundwater	1	10/10/2023 15:23
23091795-004	APW05	Groundwater	1	10/10/2023 11:18
23091795-005	APW05S	Groundwater	1	10/10/2023 10:42
23091795-006	APW06	Groundwater	1	10/10/2023 10:07
23091795-007	APW07	Groundwater	1	10/10/2023 11:06
23091795-008	APW08	Groundwater	1	10/10/2023 12:15
23091795-009	APW09	Groundwater	1	10/10/2023 13:45
23091795-010	APW10	Groundwater	1	10/10/2023 15:05
23091795-011	APW11	Groundwater	1	10/10/2023 15:02
23091795-012	APW12	Groundwater	1	10/11/2023 9:31
23091795-013	APW13	Groundwater	1	10/10/2023 14:44
23091795-014	APW14	Groundwater	1	10/10/2023 14:21
23091795-015	APW15	Groundwater	1	10/10/2023 13:16
23091795-016	APW16	Groundwater	1	10/10/2023 12:39
23091795-017	APW17	Groundwater	1	10/10/2023 11:26
23091795-018	APW18	Groundwater	1	10/10/2023 10:45
23091795-019	XPW01	Groundwater	1	10/10/2023 10:18
23091795-020	XPW02	Groundwater	1	10/10/2023 9:26
23091795-021	XPW03	Groundwater	1	10/10/2023 12:23
23091795-022	XPW04	Groundwater	1	10/10/2023 13:20
23091795-023	Field Blank	Groundwater	1	10/12/2023 13:45
23091795-024	APW02 Duplicate	Groundwater	1	10/10/2023 11:56

Dates Report

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID / Test Name	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
23091795-001A	APW02	10/10/2023 11:56	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:17
23091795-002A	APW03	10/10/2023 14:00	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:17
23091795-003A	APW04	10/10/2023 15:23	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:18
23091795-004A	APW05	10/10/2023 11:18	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:18
23091795-005A	APW05S	10/10/2023 10:42	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:18
23091795-006A	APW06	10/10/2023 10:07	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:19
23091795-007A	APW07	10/10/2023 11:06	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:19
23091795-008A	APW08	10/10/2023 12:15	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:19
23091795-009A	APW09	10/10/2023 13:45	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:19
23091795-010A	APW10	10/10/2023 15:05	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:19
23091795-011A	APW11	10/10/2023 15:02	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:20
23091795-012A	APW12	10/11/2023 9:31	10/12/2023 12:30		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-013A	APW13	10/10/2023 14:44	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-014A	APW14	10/10/2023 14:21	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-015A	APW15	10/10/2023 13:16	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-016A	APW16	10/10/2023 12:39	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-017A	APW17	10/10/2023 11:26	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-018A	APW18	10/10/2023 10:45	10/11/2023 15:00		

Dates Report

Client: Ramboll **Work Order:** 23091795

Client Project: NEW-23Q4 **Report Date:** 16-Nov-23

Sample ID	Client Sample ID	Collection Date	Received Date		
	Test Name			Prep Date/Time	Analysis Date/Time
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-019A	XPW01	10/10/2023 10:18	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-020A	XPW02	10/10/2023 9:26	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:26
23091795-021A	XPW03	10/10/2023 12:23	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:29
23091795-022A	XPW04	10/10/2023 13:20	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/09/2023 13:41
23091795-023A	Field Blank	10/12/2023 13:45	10/12/2023 17:02		
	See Attached for Subcontracting Analysis				11/03/2023 15:27
23091795-024A	APW02 Duplicate	10/10/2023 11:56	10/11/2023 15:00		
	See Attached for Subcontracting Analysis				11/03/2023 15:27

Teklab, Inc. Environmental Laboratory

Receiving Check List

http://www.teklabinc.com/

Client: Ramboll
Client Project: NEW-23Q4

Work Order: 23091795
Report Date: 16-Nov-23

Carrier: Tracy Carroll

Received By: AMD

Completed by: Amber Dilallo
On: 13-Oct-23

Reviewed by: Ellie Hopkins
On: 13-Oct-23

Pages to follow: Chain of custody 6 Extra pages included 32

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	3.2	
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.						
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑			
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑			
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐			
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑			

Any No responses must be detailed below or on the COC.

Additional Nitric Acid (93387) was needed n APW12 upon arrival at the laboratory. - amberdilallo - 10/13/2023 10:41:36 AM

pH strip #90719. - amberdilallo - 10/13/2023 10:41:54 AM

Samples collected on 10/10/23 were delivered to the laboratory on 10/11/23 at 1500 (on ice - 3.2C - LTG5). EAH 11/16/23

Samples collected on 10/11/23 were delivered to the laboratory on 10/12/23 at 1230 (on ice - 2.2C - LTG1). AMD/ERH 10/13/23

Samples collected on 10/12/23 were delivered to the laboratory on 10/12/23 at 1702 (on ice - 15.0C - LTG5). AMD/ERH 10/13/23

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-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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	

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																						
2	A213																						
3	A214																						
4	A215																						
5	APW02			10-10-23	1156		2			2						✓				✓			23091795-001
6	APW03				1400		2			2						✓				✓			002
7	APW04			↓	1523		2			2						✓				✓			003
8	APW05			10/10/23	1118		2			2						✓				✓			004
9	APW05S			10/10/23	~~1024~~ 1042		2			2						✓				✓			005
10	APW06			10/10/23	~~958~~ 1007		2			2						✓				✓			006
11	APW07			10-10-23	1106		2			2						✓				✓			007
12	APW08				1215		2			2						✓				✓			008
13	APW09				1345		2			2						✓				✓			009
14	APW10			↓	1505		2			2						✓				✓			010
15	APW11			10/10/23	1508		2			2						✓				✓			011
16	APW12						2			2						✓				✓			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
NEW-23Q4 Rev 0	Tracy Carroll	10/11/23	1325		10.11.23	1325	5	Y	N	
2,3,7,8-TCDD analysis		10.11.23	1500		10-11-23	1500	3.2			

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 7

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Newton	Report To: Brian Voelker	Attention: Terry Hanratty
Address: 6725 N 500th St	Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name: Vistra Corp
Newton, IL 62448	Sam Davies - samantha.davies@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

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	APW13			10-10-23	1444		2			2							✓				✓			23091795-013
2	APW14				1421		2			2							✓				✓			014
3	APW15				1316		2			2							✓				✓			015
4	APW16				1239		2			2							✓				✓			016
5	APW17				1126		2			2							✓				✓			017
6	APW18				1045		2			2							✓				✓			018
7	G06D																							
8	G104																							
9	G104D																							
10	G104S																							
11	G105																							
12	G106																							
13	G109																							
14	G111																							
15	G112																							
16	G113																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Travis Carroll	10/11/23	1325	Paul Vanderveer	10-11-23	1325	
	Paul Vanderveer	10-11-23	1620		10-11-23	1500	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Travis Carroll

SIGNATURE of SAMPLER: Travis Carroll DATE Signed (MM/DD/YY): 10/10/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 6 of 7

Section A Required Client Information:

Company:	Vistra Corp-Newton
Address:	6725 N 500th St
	Newton, IL 62448
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:	Terry Hanratty - Terry.Hanratty@vistracorp.com
	Sam Davies - samantha.davies@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Terry Hanratty
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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	M26-7																							
2	MW31S																							
3	MW33S																							
4	MW35S																							
5	MW36S																							
6	MW48S																							
7	R216																							
8	R217D																							
9	R219																							
10	S101																							
11	S102																							
12	SG02																							
13	T101																							
14	T102																							
15	XPW01			10-10-23	1018		2			2											✓			2309795-019
16	XPW02			10-10-23	0926		2			2											✓			020

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Terry Carroll	10/11/23	1325		10.11.23	1325	
	Paul	10.11.23	1500		10/11/23	1500	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Terry Carroll

SIGNATURE of SAMPLER: Terry Carroll

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

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

23091795

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 7 of 7

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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	

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	Requested Analysis Filtered (Y/N)																							
1	XPW03			10/10/23	~~1207~~ 1225		2			2											✓			23091795-021
2	XPW04			10/10/23	~~1205~~ 1300		2			2											✓			022
3	XSG01																							
4	Field Blank						2			2							✓				✓			023
5	A213 Duplicate																							
6	APW02 Duplicate			10-10-23	1156		2			2							✓				✓			024
7	G06D Duplicate																							
8	G104 Duplicate																							
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
NEW-23Q4 Rev 0	Tracy Carroll	10/11/23	1325	Paul Xu	10.11.23	1325	
	Paul Xu	10.11.23	1500		10.11.23	1500	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Newton	Report To:	Brian Voelker	Attention:	Terry Hanratty
Address:	6725 N 500th St	Copy To:	Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name:	Vistra Corp
	Newton, IL 62448		Sam Davies - samantha.davies@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

Requested Analysis Filtered (Y/N)

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	NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	A207																							
2	A213			10-11-23	1208																			
3	A214																							
4	A215																							
5	APW02						2			2							✓				✓			23091795-001
6	APW03						2			2							✓				✓			002
7	APW04						2			2							✓				✓			003
8	APW05						2			2							✓				✓			004
9	APW05S						2			2							✓				✓			005
10	APW06						2			2							✓				✓			006
11	APW07						2			2							✓				✓			007
12	APW08						2			2							✓				✓			008
13	APW09						2			2							✓				✓			009
14	APW10						2			2							✓				✓			010
15	APW11						2			2							✓				✓			011
16	APW12			10/11/23	931		2			2							✓				✓			012

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)
NEW-23Q4 Rev 0	Tracy Carroll	10/12	1030		10/12	1030	2.2	Y	N	Y
Revision/RAP only.		10/12	1230		10/12/23	1230				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 10/11/23

Added HNO3 (93357) to APW02.
pH ✓ 90719 DMM 10/13/23

LTG1

Confidential

23091795

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 7

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp-Newton	Report To: Brian Voelker	Attention: Terry Hanratty
Address: 6725 N 500th St	Copy To: Terry Hanratty - Terry.Hanratty@vistracorp.com	Company Name: Vistra Corp
Newton, IL 62448	Sam Davies - samantha.davies@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

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: NEW-257-501	NEW-257-502	NEW-811-502	NEW-811-503	NEW-845-501	NEW-NPDES-501	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	XPW03						2			2											✓			23091795-021
2	XPW04						2			2											✓			022
3	XSG01																							
4	Field Blank			10-12-23	1345		2			2							✓				✓			023
5	A213 Duplicate																							
6	APW02 Duplicate						2			2							✓				✓			024
7	G06D Duplicate																							
8	G104 Duplicate																							
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)
NEW-23Q4 Rev 0	Tracy Carroll	10/12/23	1702	[signature]	10/12/23	1702	#5	Y	N	Y
							15.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tracy Carroll

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/12/23

pH 7.90719 10/13/23

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Elizabeth A Hurley
TekLab, Inc
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Generated 11/15/2023 3:18:04 PM

JOB DESCRIPTION

Radium-226 and Radium-228
23091795

JOB NUMBER

160-51849-1

Eurofins St. Louis
13715 Rider Trail North
Earth City MO 63045

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Generated
11/15/2023 3:18:04 PM

Authorized for release by
Casey Robertson, Project Manager
Casey.Robertson@et.eurofinsus.com
Designee for
Jayna Awalt, Project Manager II
Jayna.Awalt@et.eurofinsus.com
(314)298-8566

Table of Contents

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Tracer Carrier Summary 31

Job ID: 160-51849-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative
160-51849-1

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

The matrix for the Method Blank and LCS/LCSD is as close to the samples as can be reasonably achieved. Detailed information can be found in the most current revision of the associated SOP.

Receipt
The samples were received on 10/16/2023 2:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved. The temperatures of the 3 coolers at receipt time were 19.0°C, 19.1°C and 19.7°C

Receipt Exceptions
The samplers name is not listed on the COC.
23091795-001 (160-51849-1), 23091795-002 (160-51849-2), 23091795-003 (160-51849-3), 23091795-004 (160-51849-4), 23091795-005 (160-51849-5), 23091795-006 (160-51849-6), 23091795-007 (160-51849-7), 23091795-008 (160-51849-8), 23091795-009 (160-51849-9), 23091795-010 (160-51849-10), 23091795-011 (160-51849-11), 23091795-012 (160-51849-12), 23091795-013 (160-51849-13), 23091795-014 (160-51849-14), 23091795-015 (160-51849-15), 23091795-016 (160-51849-16), 23091795-017 (160-51849-17), 23091795-018 (160-51849-18), 23091795-019 (160-51849-19), 23091795-020 (160-51849-20), 23091795-021 (160-51849-21), 23091795-022 (160-51849-22), 23091795-023 (160-51849-23) and 23091795-024 (160-51849-24)

The reference method requires samples to be preserved to a pH of <2. The following samples were received with insufficient preservation at a pH of 7 and 13: 23091795-015 (160-51849-15) and 23091795-019 (160-51849-19). The samples were preserved to the appropriate pH in the laboratory.

Gas Flow Proportional Counter
Method 904.0: Radium-228 Prep Batch 632485:

The following sample(s) were prepared at a reduced aliquot due to matrix. The sample 51849-22 was yellow and cloudy. The samples 380-6632-2 and 51849-21 were slightly yellow. The rest of the selected samples were slightly cloudy.

The Ra-228 laboratory control sample (LCS) associated with the following samples recovered at 137%. The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (63-150%) per method requirements. The LCS is within criteria and no further action is required. (LCS 160-632485/2-A)

The method blank (MB) has Ra-228 activity above the RL. All associated samples have Ra-228 activity either below the MDC and/or RL; therefore re-analysis is not required. The data have been reported with this narrative.

Method 904.0: Radium-228 prep batch 632479:

The following samples did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. 23091795-015 (160-51849-15) and 23091795-019 (160-51849-19)

Method 904.0: Radium-228 Prep Batch 635677:

Insufficient sample volume was available to perform a sample duplicate for the following samples: 23091795-022 (160-51849-22). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Case Narrative

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51849-1
SDG: 23091795

Job ID: 160-51849-1 (Continued)

Laboratory: Eurofins St. Louis (Continued)

The detection goal was not met for the following sample due to insufficient sample available for analysis: 23091795-022 (160-51849-22). Analytical results are reported with the detection limit achieved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Method 903.0: Radium-226:

No analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Login Sample Receipt Checklist

Client: TekLab, Inc

Job Number: 160-51849-1
SDG Number: 23091795

Login Number: 51849
List Number: 1
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	The samplers name is not listed on the COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	Preserved upon arrival.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Job ID: 160-51849-1
SDG: 23091795

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-51849-1	23091795-001	Water	10/10/23 11:56	10/16/23 14:48
160-51849-2	23091795-002	Water	10/10/23 14:00	10/16/23 14:48
160-51849-3	23091795-003	Water	10/10/23 15:23	10/16/23 14:48
160-51849-4	23091795-004	Water	10/10/23 11:18	10/16/23 14:48
160-51849-5	23091795-005	Water	10/10/23 10:42	10/16/23 14:48
160-51849-6	23091795-006	Water	10/10/23 10:07	10/16/23 14:48
160-51849-7	23091795-007	Water	10/10/23 11:06	10/16/23 14:48
160-51849-8	23091795-008	Water	10/10/23 12:15	10/16/23 14:48
160-51849-9	23091795-009	Water	10/10/23 13:45	10/16/23 14:48
160-51849-10	23091795-010	Water	10/10/23 15:05	10/16/23 14:48
160-51849-11	23091795-011	Water	10/10/23 15:02	10/16/23 14:48
160-51849-12	23091795-012	Water	10/11/23 09:31	10/16/23 14:48
160-51849-13	23091795-013	Water	10/10/23 14:44	10/16/23 14:48
160-51849-14	23091795-014	Water	10/10/23 14:21	10/16/23 14:48
160-51849-15	23091795-015	Water	10/10/23 13:16	10/16/23 14:48
160-51849-16	23091795-016	Water	10/10/23 12:39	10/16/23 14:48
160-51849-17	23091795-017	Water	10/10/23 11:26	10/16/23 14:48
160-51849-18	23091795-018	Water	10/10/23 10:45	10/16/23 14:48
160-51849-19	23091795-019	Water	10/10/23 10:18	10/16/23 14:48
160-51849-20	23091795-020	Water	10/10/23 09:26	10/16/23 14:48
160-51849-21	23091795-021	Water	10/10/23 12:23	10/16/23 14:48
160-51849-22	23091795-022	Water	10/10/23 13:20	10/16/23 14:48
160-51849-23	23091795-023	Water	10/12/23 13:45	10/16/23 14:48
160-51849-24	23091795-024	Water	10/10/23 11:56	10/16/23 14:48

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-001

Date Collected: 10/10/23 11:56
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0133	U	0.0549	0.0549	1.00	0.108	pCi/L	10/18/23 09:03	11/09/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.830**		0.387	0.394	1.00	0.534	pCi/L	10/18/23 09:05	11/03/23 15:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.8*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:17*	*1*
Y Carrier	*81.9*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:17*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.843**		0.391	0.398	5.00	0.534	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-002

Date Collected: 10/10/23 14:00
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.107	0.107	1.00	0.170	pCi/L	10/18/23 09:03	11/09/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.454	U	0.315	0.318	1.00	0.473	pCi/L	10/18/23 09:05	11/03/23 15:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:17*	*1*
Y Carrier	*86.0*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:17*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.564**		0.333	0.336	5.00	0.473	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-003
Date Collected: 10/10/23 15:23
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-3
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0329	U	0.0918	0.0919	1.00	0.168	pCi/L	10/18/23 09:03	11/09/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.05**		0.389	0.401	1.00	0.465	pCi/L	10/18/23 09:05	11/03/23 15:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:18*	*1*
Y Carrier	*80.0*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:18*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.08**		0.400	0.411	5.00	0.465	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-004
Date Collected: 10/10/23 11:18
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.175**		0.102	0.103	1.00	0.138	pCi/L	10/18/23 09:03	11/09/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.8*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.740**		0.406	0.412	1.00	0.594	pCi/L	10/18/23 09:05	11/03/23 15:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.8*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:18*	*1*
Y Carrier	*81.9*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:18*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.915**		0.419	0.425	5.00	0.594	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-005

Date Collected: 10/10/23 10:42
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0663	U	0.105	0.105	1.00	0.181	pCi/L	10/18/23 09:03	11/09/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.341	U	0.381	0.383	1.00	0.624	pCi/L	10/18/23 09:05	11/03/23 15:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:18*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:18*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.407	U	0.395	0.397	5.00	0.624	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-006

Date Collected: 10/10/23 10:07
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.331**		0.148	0.151	1.00	0.179	pCi/L	10/18/23 09:03	11/09/23 11:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.332	0.333	1.00	0.557	pCi/L	10/18/23 09:05	11/03/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*103*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*
Y Carrier	*84.9*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.577**		0.363	0.366	5.00	0.557	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-007

Date Collected: 10/10/23 11:06
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.04		0.222	0.241	1.00	0.157	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.76		0.524	0.548	1.00	0.596	pCi/L	10/18/23 09:05	11/03/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*
Y Carrier	*83.4*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.80		0.569	0.599	5.00	0.596	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-008

Date Collected: 10/10/23 12:15
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.593		0.176	0.183	1.00	0.159	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.45		0.494	0.512	1.00	0.579	pCi/L	10/18/23 09:05	11/03/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*
Y Carrier	*81.1*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.04		0.524	0.544	5.00	0.579	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-009
Date Collected: 10/10/23 13:45
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.252**		0.114	0.116	1.00	0.106	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.6*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.286	U	0.346	0.347	1.00	0.571	pCi/L	10/18/23 09:05	11/03/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.6*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*
Y Carrier	*84.9*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.538	U	0.364	0.366	5.00	0.571	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-010
Date Collected: 10/10/23 15:05
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-10
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.0867	0.0872	1.00	0.126	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.897**		0.357	0.367	1.00	0.438	pCi/L	10/18/23 09:05	11/03/23 15:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:19*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.01**		0.367	0.377	5.00	0.438	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-011

Date Collected: 10/10/23 15:02
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-11

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.243		0.127	0.129	1.00	0.162	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.611		0.382	0.386	1.00	0.553	pCi/L	10/18/23 09:05	11/03/23 15:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.0*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:20*	*1*
Y Carrier	*86.0*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:20*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.854		0.403	0.407	5.00	0.553	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-012

Date Collected: 10/11/23 09:31
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-12

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0448	U	0.115	0.115	1.00	0.209	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.846		0.473	0.480	1.00	0.672	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*83.0*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.891		0.487	0.494	5.00	0.672	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-013

Date Collected: 10/10/23 14:44
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-13

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.103	U	0.0917	0.0921	1.00	0.140	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0326	U	0.356	0.356	1.00	0.663	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*77.4*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.103	U	0.368	0.368	5.00	0.663	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-014

Date Collected: 10/10/23 14:21
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-14

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.410**		0.164	0.168	1.00	0.179	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.16**		0.547	0.557	1.00	0.751	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*81.5*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.57**		0.571	0.582	5.00	0.751	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-015

Date Collected: 10/10/23 13:16
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-15

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.937		0.393	0.402	1.00	0.464	pCi/L	10/18/23 09:03	11/09/23 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*51.6*		*30 - 110*	*10/18/23 09:03*	*11/09/23 13:35*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.57	G	1.34	1.36	1.00	1.88	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*51.6*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*81.1*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	3.51		1.40	1.42	5.00	1.88	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-016

Date Collected: 10/10/23 12:39
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.731		0.195	0.206	1.00	0.179	pCi/L	10/18/23 09:03	11/09/23 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*10/18/23 09:03*	*11/09/23 13:35*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.82		0.540	0.566	1.00	0.613	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*82.6*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.55		0.574	0.602	5.00	0.613	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-017

Lab Sample ID: 160-51849-17
Date Collected: 10/10/23 11:26
Matrix: Water
Date Received: 10/16/23 14:48

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.873		0.214	0.228	1.00	0.184	pCi/L	10/18/23 09:03	11/09/23 13:35	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		30 - 110	10/18/23 09:03	11/09/23 13:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.43		0.526	0.542	1.00	0.671	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		30 - 110	10/18/23 09:05	11/03/23 15:26	1
Y Carrier	85.6		30 - 110	10/18/23 09:05	11/03/23 15:26	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.30		0.568	0.588	5.00	0.671	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-018

Lab Sample ID: 160-51849-18
Date Collected: 10/10/23 10:45
Matrix: Water
Date Received: 10/16/23 14:48

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.433		0.155	0.160	1.00	0.157	pCi/L	10/18/23 09:03	11/09/23 13:35	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110	10/18/23 09:03	11/09/23 13:35	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.830		0.449	0.456	1.00	0.637	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110	10/18/23 09:05	11/03/23 15:26	1
Y Carrier	81.5		30 - 110	10/18/23 09:05	11/03/23 15:26	1

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.26		0.475	0.483	5.00	0.637	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-019
Date Collected: 10/10/23 10:18
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-19
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.618		0.263	0.269	1.00	0.297	pCi/L	10/18/23 09:03	11/09/23 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*30 - 110*	*10/18/23 09:03*	*11/09/23 13:35*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.557	U G	0.753	0.754	1.00	1.26	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.8*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.18	U	0.798	0.801	5.00	1.26	pCi/L		11/10/23 12:42	1

Client Sample ID: 23091795-020
Date Collected: 10/10/23 09:26
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-20
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.202		0.122	0.123	1.00	0.138	pCi/L	10/18/23 09:03	11/09/23 13:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.7*		*30 - 110*	*10/18/23 09:03*	*11/09/23 13:35*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.799		0.531	0.536	1.00	0.776	pCi/L	10/18/23 09:05	11/03/23 15:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*68.7*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*
Y Carrier	*81.9*		*30 - 110*	*10/18/23 09:05*	*11/03/23 15:26*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.00		0.545	0.550	5.00	0.776	pCi/L		11/10/23 12:42	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-021

Date Collected: 10/10/23 12:23
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-21

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0875	U	0.0962	0.0965	1.00	0.154	pCi/L	10/18/23 09:14	11/09/23 13:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/18/23 09:14*	*11/09/23 13:40*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.639	U	0.518	0.522	1.00	0.816	pCi/L	10/18/23 09:19	11/03/23 15:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.7*		*30 - 110*	*10/18/23 09:19*	*11/03/23 15:29*	*1*
Y Carrier	*84.9*		*30 - 110*	*10/18/23 09:19*	*11/03/23 15:29*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.727	U	0.527	0.531	5.00	0.816	pCi/L		11/15/23 13:35	1

Client Sample ID: 23091795-022

Date Collected: 10/10/23 13:20
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0658	U	0.178	0.178	1.00	0.341	pCi/L	10/18/23 09:14	11/09/23 13:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*32.0*		*30 - 110*	*10/18/23 09:14*	*11/09/23 13:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.427	U G	0.753	0.754	1.00	1.53	pCi/L	11/07/23 11:01	11/14/23 11:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*30 - 110*	*11/07/23 11:01*	*11/14/23 11:33*	*1*
Y Carrier	*57.6*		*30 - 110*	*11/07/23 11:01*	*11/14/23 11:33*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0658	U	0.774	0.775	5.00	1.53	pCi/L		11/15/23 13:16	1

Client Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Client Sample ID: 23091795-023

Date Collected: 10/12/23 13:45
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-23

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.182		0.0904	0.0919	1.00	0.101	pCi/L	10/18/23 09:14	11/09/23 13:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.8*		*30 - 110*	*10/18/23 09:14*	*11/09/23 13:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.559		0.298	0.302	1.00	0.416	pCi/L	10/18/23 09:19	11/03/23 15:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.8*		*30 - 110*	*10/18/23 09:19*	*11/03/23 15:27*	*1*
Y Carrier	*89.7*		*30 - 110*	*10/18/23 09:19*	*11/03/23 15:27*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.740		0.311	0.316	5.00	0.416	pCi/L		11/15/23 13:35	1

Client Sample ID: 23091795-024

Date Collected: 10/10/23 11:56
Date Received: 10/16/23 14:48

Lab Sample ID: 160-51849-24

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0581	U	0.0579	0.0581	1.00	0.0871	pCi/L	10/18/23 09:14	11/09/23 13:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*30 - 110*	*10/18/23 09:14*	*11/09/23 13:41*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.514		0.292	0.296	1.00	0.416	pCi/L	10/18/23 09:19	11/03/23 15:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*30 - 110*	*10/18/23 09:19*	*11/03/23 15:27*	*1*
Y Carrier	*93.5*		*30 - 110*	*10/18/23 09:19*	*11/03/23 15:27*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.573		0.298	0.302	5.00	0.416	pCi/L		11/15/23 13:35	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-632478/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 636166 — **Prep Batch: 632478**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.07906	U	0.0723	0.0726	1.00	0.109	pCi/L	10/18/23 09:03	11/09/23 11:44	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.1*		*30 - 110*	*10/18/23 09:03*	*11/09/23 11:44*	*1*

Lab Sample ID: LCS 160-632478/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 636166 — **Prep Batch: 632478**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.02		1.08	1.00	0.137	pCi/L	88	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*99.0*		*30 - 110*

Lab Sample ID: 160-51849-1 DU — **Client Sample ID: 23091795-001**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 636166 — **Prep Batch: 632478**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0133	U	0.08428	U	0.0828	1.00	0.129	pCi/L	0.52	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.8*		*30 - 110*

Lab Sample ID: MB 160-632484/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 636008 — **Prep Batch: 632484**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.002000	U	0.126	0.126	1.00	0.268	pCi/L	10/18/23 09:14	11/09/23 13:37	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*34.0*		*30 - 110*	*10/18/23 09:14*	*11/09/23 13:37*	*1*

Lab Sample ID: LCS 160-632484/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 636008 — **Prep Batch: 632484**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	11.07		1.23	1.00	0.151	pCi/L	98	75 - 125

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-632484/2-A
Matrix: Water
Analysis Batch: 636008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632484

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	63.1		30 - 110

Lab Sample ID: 160-51849-24 DU
Matrix: Water
Analysis Batch: 636008

Client Sample ID: 23091795-024
Prep Type: Total/NA
Prep Batch: 632484

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0581	U	0.1206		0.0848	1.00	0.114	pCi/L	0.44	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	90.7		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-632479/1-A
Matrix: Water
Analysis Batch: 635024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632479

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1773	U	0.245	0.246	1.00	0.412	pCi/L	10/18/23 09:05	11/03/23 15:17	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		30 - 110	10/18/23 09:05	11/03/23 15:17	1
Y Carrier	82.6		30 - 110	10/18/23 09:05	11/03/23 15:17	1

Lab Sample ID: LCS 160-632479/2-A
Matrix: Water
Analysis Batch: 635024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632479

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.75	8.615		1.15	1.00	0.433	pCi/L	111	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	99.0		30 - 110
Y Carrier	86.4		30 - 110

Lab Sample ID: 160-51849-1 DU
Matrix: Water
Analysis Batch: 635024

Client Sample ID: 23091795-001
Prep Type: Total/NA
Prep Batch: 632479

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.830		0.7688		0.380	1.00	0.525	pCi/L	0.08	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 160-51849-1 DU
Matrix: Water
Analysis Batch: 635024

Client Sample ID: 23091795-001
Prep Type: Total/NA
Prep Batch: 632479

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	98.8		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: MB 160-632485/1-A
Matrix: Water
Analysis Batch: 635114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632485

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.542	G	1.00	1.01	1.00	1.50	pCi/L	10/18/23 09:19	11/03/23 15:28	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	34.0		30 - 110	10/18/23 09:19	11/03/23 15:28	1
Y Carrier	77.4		30 - 110	10/18/23 09:19	11/03/23 15:28	1

Lab Sample ID: LCS 160-632485/2-A
Matrix: Water
Analysis Batch: 635114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632485

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.75	10.61		1.59	1.00	0.772	pCi/L	137	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	63.1		30 - 110
Y Carrier	78.1		30 - 110

Lab Sample ID: 160-51849-24 DU
Matrix: Water
Analysis Batch: 635115

Client Sample ID: 23091795-024
Prep Type: Total/NA
Prep Batch: 632485

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.514		0.7718		0.343	1.00	0.427	pCi/L	0.40	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	90.7		30 - 110
Y Carrier	86.7		30 - 110

Lab Sample ID: MB 160-635677/1-A
Matrix: Water
Analysis Batch: 636839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635677

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2414	U	0.329	0.330	1.00	0.553	pCi/L	11/07/23 11:01	11/14/23 11:33	1

QC Sample Results

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-635677/1-A
Matrix: Water
Analysis Batch: 636839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 635677

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110	11/07/23 11:01	11/14/23 11:33	1
Y Carrier	69.5		30 - 110	11/07/23 11:01	11/14/23 11:33	1

Lab Sample ID: LCS 160-635677/2-A
Matrix: Water
Analysis Batch: 636839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 635677

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.72	8.045		1.19	1.00	0.517	pCi/L	104	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.1		30 - 110
Y Carrier	72.1		30 - 110

Lab Sample ID: LCSD 160-635677/3-A
Matrix: Water
Analysis Batch: 636839

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 635677

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	7.72	6.703		1.13	1.00	0.622	pCi/L	87	75 - 125	0.58	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	84.2		30 - 110
Y Carrier	66.2		30 - 110

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Rad

Prep Batch: 632478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51849-1	23091795-001	Total/NA	Water	PrecSep-21	
160-51849-2	23091795-002	Total/NA	Water	PrecSep-21	
160-51849-3	23091795-003	Total/NA	Water	PrecSep-21	
160-51849-4	23091795-004	Total/NA	Water	PrecSep-21	
160-51849-5	23091795-005	Total/NA	Water	PrecSep-21	
160-51849-6	23091795-006	Total/NA	Water	PrecSep-21	
160-51849-7	23091795-007	Total/NA	Water	PrecSep-21	
160-51849-8	23091795-008	Total/NA	Water	PrecSep-21	
160-51849-9	23091795-009	Total/NA	Water	PrecSep-21	
160-51849-10	23091795-010	Total/NA	Water	PrecSep-21	
160-51849-11	23091795-011	Total/NA	Water	PrecSep-21	
160-51849-12	23091795-012	Total/NA	Water	PrecSep-21	
160-51849-13	23091795-013	Total/NA	Water	PrecSep-21	
160-51849-14	23091795-014	Total/NA	Water	PrecSep-21	
160-51849-15	23091795-015	Total/NA	Water	PrecSep-21	
160-51849-16	23091795-016	Total/NA	Water	PrecSep-21	
160-51849-17	23091795-017	Total/NA	Water	PrecSep-21	
160-51849-18	23091795-018	Total/NA	Water	PrecSep-21	
160-51849-19	23091795-019	Total/NA	Water	PrecSep-21	
160-51849-20	23091795-020	Total/NA	Water	PrecSep-21	
MB 160-632478/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-632478/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-51849-1 DU	23091795-001	Total/NA	Water	PrecSep-21	

Prep Batch: 632479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51849-1	23091795-001	Total/NA	Water	PrecSep_0	
160-51849-2	23091795-002	Total/NA	Water	PrecSep_0	
160-51849-3	23091795-003	Total/NA	Water	PrecSep_0	
160-51849-4	23091795-004	Total/NA	Water	PrecSep_0	
160-51849-5	23091795-005	Total/NA	Water	PrecSep_0	
160-51849-6	23091795-006	Total/NA	Water	PrecSep_0	
160-51849-7	23091795-007	Total/NA	Water	PrecSep_0	
160-51849-8	23091795-008	Total/NA	Water	PrecSep_0	
160-51849-9	23091795-009	Total/NA	Water	PrecSep_0	
160-51849-10	23091795-010	Total/NA	Water	PrecSep_0	
160-51849-11	23091795-011	Total/NA	Water	PrecSep_0	
160-51849-12	23091795-012	Total/NA	Water	PrecSep_0	
160-51849-13	23091795-013	Total/NA	Water	PrecSep_0	
160-51849-14	23091795-014	Total/NA	Water	PrecSep_0	
160-51849-15	23091795-015	Total/NA	Water	PrecSep_0	
160-51849-16	23091795-016	Total/NA	Water	PrecSep_0	
160-51849-17	23091795-017	Total/NA	Water	PrecSep_0	
160-51849-18	23091795-018	Total/NA	Water	PrecSep_0	
160-51849-19	23091795-019	Total/NA	Water	PrecSep_0	
160-51849-20	23091795-020	Total/NA	Water	PrecSep_0	
MB 160-632479/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-632479/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-51849-1 DU	23091795-001	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Rad

Prep Batch: 632484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51849-21	23091795-021	Total/NA	Water	PrecSep-21	
160-51849-22	23091795-022	Total/NA	Water	PrecSep-21	
160-51849-23	23091795-023	Total/NA	Water	PrecSep-21	
160-51849-24	23091795-024	Total/NA	Water	PrecSep-21	
MB 160-632484/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-632484/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-51849-24 DU	23091795-024	Total/NA	Water	PrecSep-21	

Prep Batch: 632485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51849-21	23091795-021	Total/NA	Water	PrecSep_0	
160-51849-23	23091795-023	Total/NA	Water	PrecSep_0	
160-51849-24	23091795-024	Total/NA	Water	PrecSep_0	
MB 160-632485/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-632485/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-51849-24 DU	23091795-024	Total/NA	Water	PrecSep_0	

Prep Batch: 635677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-51849-22	23091795-022	Total/NA	Water	PrecSep_0	
MB 160-635677/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-635677/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-635677/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
160-51849-1	23091795-001	96.8
160-51849-1 DU	23091795-001	98.8
160-51849-2	23091795-002	95.1
160-51849-3	23091795-003	91.4
160-51849-4	23091795-004	95.8
160-51849-5	23091795-005	98.8
160-51849-6	23091795-006	103
160-51849-7	23091795-007	100
160-51849-8	23091795-008	101
160-51849-9	23091795-009	96.6
160-51849-10	23091795-010	91.7
160-51849-11	23091795-011	98.0
160-51849-12	23091795-012	88.8
160-51849-13	23091795-013	88.3
160-51849-14	23091795-014	87.5
160-51849-15	23091795-015	51.6
160-51849-16	23091795-016	100
160-51849-17	23091795-017	98.8
160-51849-18	23091795-018	100
160-51849-19	23091795-019	75.8
160-51849-20	23091795-020	68.7
160-51849-21	23091795-021	90.7
160-51849-22	23091795-022	32.0
160-51849-23	23091795-023	99.8
160-51849-24	23091795-024	96.1
160-51849-24 DU	23091795-024	90.7
LCS 160-632478/2-A	Lab Control Sample	99.0
LCS 160-632484/2-A	Lab Control Sample	63.1
MB 160-632478/1-A	Method Blank	97.1
MB 160-632484/1-A	Method Blank	34.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
160-51849-1	23091795-001	96.8	81.9
160-51849-1 DU	23091795-001	98.8	84.9
160-51849-2	23091795-002	95.1	86.0
160-51849-3	23091795-003	91.4	80.0
160-51849-4	23091795-004	95.8	81.9
160-51849-5	23091795-005	98.8	81.5
160-51849-6	23091795-006	103	84.9
160-51849-7	23091795-007	100	83.4
160-51849-8	23091795-008	101	81.1
160-51849-9	23091795-009	96.6	84.9

Tracer/Carrier Summary

Client: TekLab, Inc
Project/Site: Radium-226 and Radium-228

Lab ID: 160-51849-1
SDG: 23091795

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
160-51849-10	23091795-010	91.7	81.5
160-51849-11	23091795-011	98.0	86.0
160-51849-12	23091795-012	88.8	83.0
160-51849-13	23091795-013	88.3	77.4
160-51849-14	23091795-014	87.5	81.5
160-51849-15	23091795-015	51.6	81.1
160-51849-16	23091795-016	100	82.6
160-51849-17	23091795-017	98.8	85.6
160-51849-18	23091795-018	100	81.5
160-51849-19	23091795-019	75.8	78.1
160-51849-20	23091795-020	68.7	81.9
160-51849-21	23091795-021	90.7	84.9
160-51849-22	23091795-022	83.7	57.6
160-51849-23	23091795-023	99.8	89.7
160-51849-24	23091795-024	96.1	93.5
160-51849-24 DU	23091795-024	90.7	86.7
LCS 160-632479/2-A	Lab Control Sample	99.0	86.4
LCS 160-632485/2-A	Lab Control Sample	63.1	78.1
LCS 160-635677/2-A	Lab Control Sample	93.1	72.1
LCSD 160-635677/3-A	Lab Control Sample Dup	84.2	66.2
MB 160-632479/1-A	Method Blank	97.1	82.6
MB 160-632485/1-A	Method Blank	34.0	77.4
MB 160-635677/1-A	Method Blank	93.6	69.5

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-005A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW02	10/10/2023	11:50	1150	8.14		17	62.6	6.68	4454.7	4454.7	0.32	16.98	6.7	
APW02	10/10/2023	11:53	1153	8.14		17	62.6	6.68	4414.2	4414.2	0.28	8.94	9.2	
APW02	10/10/2023	11:56	1156	8.14		17.3	63.14	6.68	4385.5	4385.5	0.28	6.43	11.1	

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-006A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW03	10/10/2023	13:54	1354	8.04		17.9	64.22	6.99	832.3	832.3	0.43	9.46	-17.5	
APW03	10/10/2023	13:57	1357	8.04		18.9	66.02	6.93	840.2	840.2	0.44	7.44	-12.3	
APW03	10/10/2023	14:00	1400	8.04		19.8	67.64	6.91	840.4	840.4	0.51	6.76	-10.1	

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-007A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW04	10/10/2023	15:17	1517	5.45		17	62.6	6.79	1797.1	1797.1	0.37	22.55	17.5	
APW04	10/10/2023	15:20	1520	5.45		17.7	63.86	6.79	1791.1	1791.1	0.38	12.97	18.3	
APW04	10/10/2023	15:23	1523	5.45		17.8	64.04	6.79	1807.4	1807.4	0.47	9.79	18.6	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-008A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW05	10/10/2023	11:09	1109	14.33		15.2	59.36	7.42	988.7	988.7	0.68	17.5	-77	
APW05	10/10/2023	11:12	1112	14.33		15.2	59.36	7.42	988.3	988.3	0.62	15.71	-107.2	
APW05	10/10/2023	11:15	1115	14.33		15.2	59.36	7.42	987.7	987.7	0.58	25.13	-124.5	
APW05	10/10/2023	11:18	1118	14.33		15.1	59.18	7.43	987.9	987.9	0.6	31.09	-134.5	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-009A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW05S	10/10/2023	10:36	1036	13.94		16.2	61.16	6.67	3749.3	3749.3	0.77	52.68	-0.5	
APW05S	10/10/2023	10:39	1039	13.94		16.3	61.34	6.66	3780.9	3780.9	0.74	55.16	-1.6	
APW05S	10/10/2023	10:42	1042	13.94		16.5	61.7	6.66	3801.4	3801.4	0.72	61.14	-2.5	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-010A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW06	10/10/2023	9:58	0958	19.45		14.3	57.74	6.94	898.3	898.3	0.98	45.88	-57.1	
APW06	10/10/2023	10:01	1001	19.45		14.4	57.92	7.01	896.4	896.4	0.8	53.85	-75.8	
APW06	10/10/2023	10:04	1004	19.45		14.4	57.92	7.07	895.1	895.1	0.73	65.49	-89.3	
APW06	10/10/2023	10:07	1007	19.45		14.4	57.92	7.11	894.4	894.4	0.68	69.55	-99.4	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-011A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW07	10/10/2023	11:00	1100	47.18		13.3	55.94	7.79	895.6	895.6	9.47	20.18	-71.1	
APW07	10/10/2023	11:03	1103	47.18		13.3	55.94	7.68	896.7	896.7	9.19	12.78	-69.7	
APW07	10/10/2023	11:06	1106	47.18		13.3	55.94	7.62	894.3	894.3	9.16	10.46	-68.3	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-012A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW08	10/10/2023	12:09	1209	38.01		15.5	59.9	7.55	925.3	925.3	2.82	10.04	10.4	
APW08	10/10/2023	12:12	1212	38.01		15	59	7.44	951.6	951.6	0.9	6.35	-38.3	
APW08	10/10/2023	12:15	1215	38.01		14.9	58.82	7.42	951.9	951.9	0.64	4.24	-63.5	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-013A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW09	10/10/2023	13:39	1339	27.55		14.6	58.28	7.78	982.5	982.5	0.77	8.92	-39.6	
APW09	10/10/2023	13:42	1342	27.55		14.4	57.92	7.66	981.5	981.5	0.28	8.19	-44.1	
APW09	10/10/2023	13:45	1345	27.55		14.5	58.1	7.61	987.8	987.8	0.19	5.93	-46.2	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-014A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW10	10/10/2023	14:59	1459	18.79		14.4	57.92	7.3	1271.7	1271.7	3.12	15.4	-2.3	
APW10	10/10/2023	15:02	1502	18.79		14.2	57.56	7.28	1258.5	1258.5	2.98	13.26	0.7	
APW10	10/10/2023	15:05	1505	18.79		14.2	57.56	7.26	1282	1282	2.77	7.98	3	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-015A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW11	10/10/2023	14:47	1447	25.07		15.7	60.26	7.78	1315.6	1315.6	0.71	68.48	-118	
APW11	10/10/2023	14:50	1450	25.07		15.7	60.26	7.7	1312.6	1312.6	0.68	63.57	-118.9	
APW11	10/10/2023	14:53	1453	25.07		15.7	60.26	7.63	1311	1311	0.66	83.28	-118.6	
APW11	10/10/2023	14:56	1456	25.07		15.7	60.26	7.58	1309.9	1309.9	0.64	71.19	-117.3	
APW11	10/10/2023	14:59	1459	25.07		15.6	60.08	7.54	1308.8	1308.8	0.64	58.07	-117.7	
APW11	10/10/2023	15:02	1502	25.07		15.6	60.08	7.5	1307.2	1307.2	0.63	54.44	-116.9	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-016A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW12	10/11/2023	9:25	0925	16.13		14.5	58.1	6.04	2080.3	2080.3	0.8	14.94	10.6	
APW12	10/11/2023	9:28	0928	16.13		14.6	58.28	6.09	2189.1	2189.1	0.76	12.7	8.1	
APW12	10/11/2023	9:31	0931	16.13		14.6	58.28	6.11	2194.7	2194.7	0.71	11.14	6.2	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-017A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW13	10/10/2023	14:38	1438	33.06		14	57.2	7.29	1181.1	1181.1	1.71	5.54	-15.6	
APW13	10/10/2023	14:41	1441	33.06		13.9	57.02	7.22	1183.8	1183.8	0.51	3.08	-21.5	
APW13	10/10/2023	14:44	1444	33.06		13.8	56.84	7.19	1187.2	1187.2	0.29	1.29	-30.8	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-018A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW14	10/10/2023	14:15	1415	21.73		13.8	56.84	7.36	1277.8	1277.8	0.59	11.31	-46.9	
APW14	10/10/2023	14:18	1418	21.73		13.8	56.84	7.33	1279.2	1279.2	0.29	9.5	-60.6	
APW14	10/10/2023	14:21	1421	21.73		13.8	56.84	7.31	1280	1280	0.19	6.98	-67.9	

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-019A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW15	10/10/2023	13:07	1307	21		14.9	58.82	7.17	1700.1	1700.1	0.02	57.02	-98.9	
APW15	10/10/2023	13:10	1310	21		15.1	59.18	7.15	1704.7	1704.7	0.02	56.37	-100.9	
APW15	10/10/2023	13:13	1313	21		15	59	7.14	1705.4	1705.4	0.01	57.21	-103	
APW15	10/10/2023	13:16	1316	21		15	59	7.13	1704.9	1704.9	0	56.34	-104.5	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-020A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW16	10/10/2023	12:33	1233	40.61		13.4	56.12	7.53	1074.3	1074.3	1.8	3.44	-3.4	
APW16	10/10/2023	12:36	1236	40.61		13.3	55.94	7.46	1090.1	1090.1	0.49	1.91	-54	
APW16	10/10/2023	12:39	1239	40.61		13.2	55.76	7.45	1093.6	1093.6	0.25	1.44	-69.5	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-021A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW17	10/10/2023	11:20	1120	41.58		13.9	57.02	7.53	984.7	984.7	1.3	11.08	-33.6	
APW17	10/10/2023	11:23	1123	41.58		13.8	56.84	7.5	993.4	993.4	0.48	13.04	-62.3	
APW17	10/10/2023	11:26	1126	41.58		13.7	56.66	7.49	993.4	993.4	0.27	7.53	-73.1	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-022A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW18	10/10/2023	10:39	1039	52.08		13.7	56.66	8.74	869.2	869.2	1.33	7.96	-85.3	
APW18	10/10/2023	10:42	1042	52.08		13.6	56.48	8.27	867.3	867.3	0.38	7.21	-83.6	
APW18	10/10/2023	10:45	1045	52.08		13.5	56.3	8.05	865.8	865.8	0.22	8.53	-99.7	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-095A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW01	10/10/2023	10:00	1000	11.46		17.2	62.96	12.44	9993.4	9993.4	0.37	125.25	-253.3	
XPW01	10/10/2023	10:03	1003	11.46		17.3	63.14	12.46	9989.5	9989.5	0.13	104.72	-274	
XPW01	10/10/2023	10:06	1006	11.46		17.3	63.14	12.47	9990.2	9990.2	0.08	96.52	-279.7	
XPW01	10/10/2023	10:09	1009	11.46		17.4	63.32	12.48	9991.6	9991.6	0.03	86.94	-283.4	
XPW01	10/10/2023	10:12	1012	11.46		17.4	63.32	12.48	9995.8	9995.8	0.02	72.25	-288	
XPW01	10/10/2023	10:15	1015	11.46		17.4	63.32	12.49	10000.4	10000.4	0.01	67.86	-291.9	
XPW01	10/10/2023	10:18	1018	11.46		17.4	63.32	12.49	10001.1	10001.1	-0.01	72.14	-295.2	

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-096A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW02	10/10/2023	9:20	0920	8.16		16.5	61.7	9.82	492.3	492.3	0.86	5.38	-24.3	
XPW02	10/10/2023	9:23	0923	8.16		16.5	61.7	9.76	492.1	492.1	0.7	3.46	-69.5	
XPW02	10/10/2023	9:26	0926	8.16		16.5	61.7	9.74	492	492	0.59	2.92	-101.7	

Site Sampling Event	Newton 4Q 2023
LIMS Workorder	2091794-097A
Technician	BG, JC, TAC

Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW03	10/10/2023	12:17	1217	10.74		16.8	62.24	11.69	1843.7	1843.7	0.95	17.76	-151.7	
XPW03	10/10/2023	12:20	1220	10.74		16.8	62.24	11.72	1844.9	1844.9	0.9	16.51	-161.4	
XPW03	10/10/2023	12:23	1223	10.74		16.8	62.24	11.75	1855.5	1855.5	0.95	14.4	-168.2	

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-098A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
XPW04	10/10/2023	13:11	1311	12.6		16.6	61.88	12	16621.1	16621.1	1.45	29.7	-209.9	
XPW04	10/10/2023	13:14	1314	12.6		16.6	61.88	12.01	16649.3	16649.3	0.86	21.91	-213.5	
XPW04	10/10/2023	13:17	1317	12.6		16.7	62.06	12.01	16663.2	16663.2	0.72	17.05	-216.5	
XPW04	10/10/2023	13:20	1320	12.6		16.6	61.88	12.01	16671	16671	0.79	18.22	-219	

Site Sampling Event	Newton 4Q 2023													
LIMS Workorder	2091794-102A													
Technician	BG, JC, TAC													
Well ID	Date	Time	Time (adj)	DTW	Drawdown	Temp (deg C)	Temp (deg F)	pH (SU)	Sp Cond (µS/cm)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	Purge Volume (gal)
APW02DUP	10/10/2023	11:50	1150	8.14		17	62.6	6.68	4454.7	4454.7	0.32	16.98	6.7	
APW02DUP	10/10/2023	11:53	1153	8.14		17	62.6	6.68	4414.2	4414.2	0.28	8.94	9.2	
APW02DUP	10/10/2023	11:56	1156	8.14		17.3	63.14	6.68	4385.5	4385.5	0.28	6.43	11.1	

Field Calibration Log

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: 49551
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	10/10/23 8:39
7.0 Buffer	wc230616f	7.01	10/10/23 8:43
10.0 Buffer	wc230504c	10.00	10/10/23 8:47
LCS (7.0 Buffer)	wc230504b	[redacted]	[redacted]

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,409	10/10/23 8:52

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/10/23 8:55	18.5	7.01	1,412	
CCV	10/10/23 15:38	18.7	7.02	1,423	

Field Meter ID: 49551
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.00	10/11/23 8:28
7.0 Buffer	wc230616f	7.02	10/11/23 8:33
10.0 Buffer	wc230504c	9.99	10/11/23 8:38
LCS (7.0 Buffer)	wc230504b	[redacted]	[redacted]

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,415	10/11/23 8:43

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/11/23 8:45	18.9	7.02	1,418	
CCV	10/11/23 16:23	20.1	7.03	1,429	

Field Meter ID: 49551
Technician: Justin Colp

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230720g	4.01	10/12/23 8:17
7.0 Buffer	wc230616f	7.02	10/12/23 8:21
10.0 Buffer	wc230504c	9.98	10/12/23 8:25
LCS (7.0 Buffer)	wc230504b	[redacted]	[redacted]

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,405	10/12/23 8:29

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/12/23 8:32	18.2	7.02	1,410	
CCV	10/12/23 13:32	19.7	7.04	1,438	

Field Calibration Log

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 49331
Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/10/23 8:52
7.0 Buffer	WC230616F	7.00	10/10/23 8:54
10.0 Buffer	WC230504C	10.00	10/10/23 8:59
LCS (7.0 Buffer)	WC230504B	[redacted]	[redacted]

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,413	10/10/23 9:01

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/10/23 9:05	11.5	7.01	1,413	
CCV	10/10/23 15:45	18.7	7.05	1,418	

Field Meter ID: Pine 49331
Technician: Tracy Carroll

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/11/23 8:44
7.0 Buffer	WC230616F	7.00	10/11/23 8:50
10.0 Buffer	WC230504C	10.00	10/11/23 8:57
LCS (7.0 Buffer)	WC230504B	[redacted]	[redacted]

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,412	10/11/23 8:57

Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/11/23 9:06	11.7	7.07	1,412	
CCV	10/11/23 16:13	21.4	7.03	1,446	

Field Meter ID: Pine 49331
Technician: Tracy Carroll

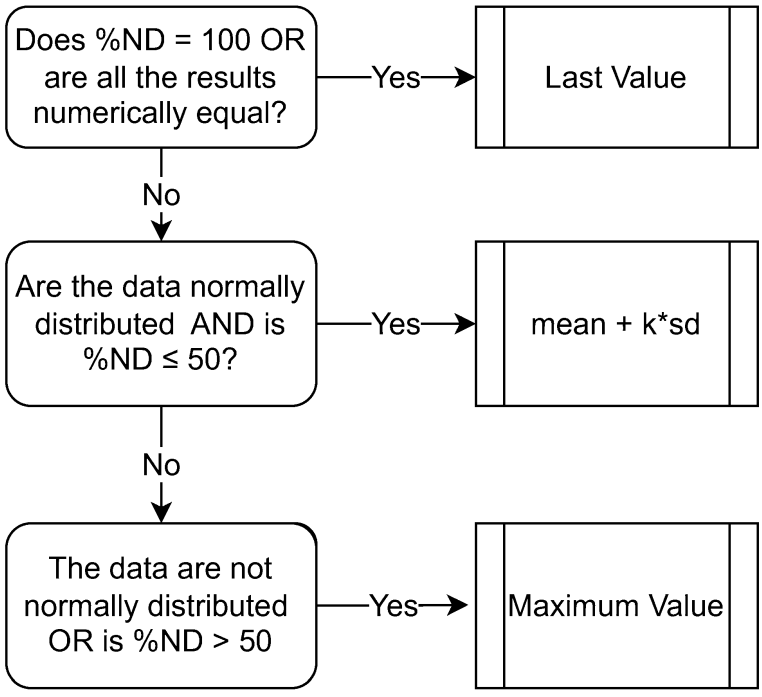
pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230720G	4.00	10/12/23 8:48
7.0 Buffer	WC230616F	7.04	10/12/23 8:50
10.0 Buffer	WC230504C	10.02	10/12/23 8:51
LCS (7.0 Buffer)	WC230504B	[redacted]	[redacted]

Conductivity Standard	LIMS ID/Lot#	Reading	Date/Time
1412 µS Std.	87241	1,412	10/12/23 8:53

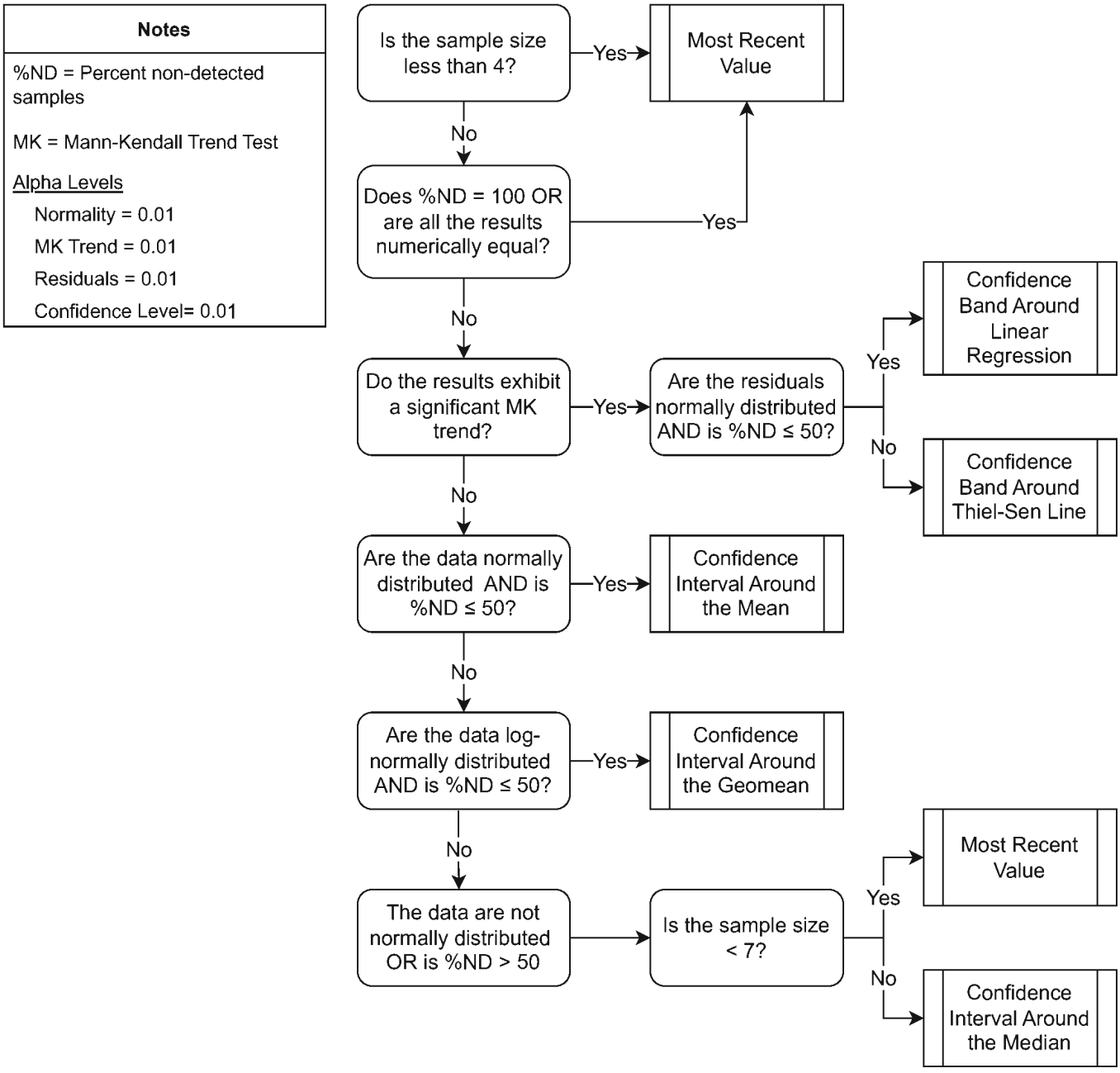
Sample ID	Date/Time	Temp. °C	pH	Conductivity µS	Comments
LCS	10/12/23 8:54	19.5	7.06	1,413	
CCV	10/12/23 14:40	24.2	7.02	1,453	

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES

Notes
%ND = Percent non-detected samples sd = standard deviation k = kappa for tolerance limit (95% confidence/95% coverage)



APPENDIX C
STATISTICAL METHODOLGY FOR DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS


Notes
%ND = Percent non-detected samples
MK = Mann-Kendall Trend Test
Alpha Levels
Normality = 0.01
MK Trend = 0.01
Residuals = 0.01
Confidence Level= 0.01
Is the sample size less than 4?
Yes
Most Recent Value
No
Does %ND = 100 OR are all the results numerically equal?
Yes
No
Do the results exhibit a significant MK trend?
Yes
Are the residuals normally distributed AND is %ND ≤ 50?
Yes
Confidence Band Around Linear Regression
No
Confidence Band Around Thiel-Sen Line
No
Are the data normally distributed AND is %ND ≤ 50?
Yes
Confidence Interval Around the Mean
No
Are the data log-normally distributed AND is %ND ≤ 50?
Yes
Confidence Interval Around the Geomean
No
The data are not normally distributed OR is %ND > 50
Is the sample size < 7?
Yes
Most Recent Value
No
Confidence Interval Around the Median

APPENDIX D
DEMONSTRATION FOR EXTENSION TO COMPLETE CORRECTIVE MEASURES ASSESSMENT

RAMBOLL

ENVIRONMENT & HEALTH

Mr. Brian Voelker
Environmental Manager
Vistra Energy
133 South 4th Street, Suite 306
Springfield, IL 62701

RE: Demonstration for Extension to Complete Corrective Measures Assessment Under 40 C.F.R. § 257.96
Newton Power Plant Primary Ash Pond – CCR Unit ID 501

January 19, 2024

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Ref. 1940103649-013

Dear Mr. Voelker,

Ramboll Americas Engineering Solutions, Inc. (Ramboll) is providing Illinois Power Generating Company (IPGC) with this letter certifying that, based on our knowledge of the status of the groundwater monitoring and corrective measures assessment (CMA) activities at the Primary Ash Pond (PAP) coal combustion residuals (CCR) unit at Newton Power Plant, a 60-day extension to complete the CMA is justified and valid.

IPCG initiated a CMA on November 5, 2023 [1], following identification of a groundwater protection standard (GWPS) exceedance of 40 C.F.R. § 257.95. An additional 60 days are required to complete the 40 C.F.R. § 257.96 CMA based on the following site-specific circumstances:

Circumstance 1: Development of a CMA in accordance with Illinois Part 845 Rule

IPGC is also subject to the CMA development requirements of 35 Illinois Administrative Code (I.A.C.) § 845.660, and initiated a CMA in accordance with these requirements on November 5, 2023. On November 6, 2023, IPGC submitted a 60-day CMA schedule extension request under I.A.C. § 845.660 [2] to the Illinois Environmental Protection Agency (IEPA); this request was subsequently approved on December 11, 2023 [3]. Additional time is required to develop a CMA in accordance with both I.A.C. § 846.660 and 40 C.F.R. § 257.96.

Circumstance 2: Ongoing Fieldwork and Additional Data Collection

IPGC is in the process of performing ongoing fieldwork and data collection activities for the PAP. These activities, which require additional time to complete and incorporate into the CMA, include:

- The reliability of monitored natural attenuation (MNA) to attain GWPS is currently under evaluation. IPGC is in the process of evaluating the results of additional recent fieldwork and data collection associated with the evaluation of MNA as a corrective measure for the PAP. The fieldwork included new soil borings, collection of soil samples, and geochemical testing. The results of this fieldwork and data collection will be utilized to evaluate the reliability, including the potential for reversibility, of MNA relative to other types of corrective measures.
- The nature and extent of contamination around the PAP is currently under evaluation. IPGC is in the planning process of installing additional monitoring wells to further define the nature and extent of exceedances around the PAP. The results of additional groundwater data collection will be utilized to further evaluate the ability of corrective measures to address the refined nature and extent of groundwater impacts.

Circumstance 3: Physical Size of the PAP, Potential Conflicts with Closure, and Adjacent Floodplains and Water Bodies

The evaluation of performance and reliability of corrective measures for the PAP will be complicated by physical challenges and constraints that may impact effective implementation of corrective measures at the site. These challenges include, but are not limited to:

- The PAP has a total surface area of nearly 450 acres and a perimeter length of approximately 17,000 feet [4].
- Closure of the PAP, in accordance with the closure plan and construction permit application submitted to Illinois Environmental Protection Agency (IEPA) on July 22, 2022 [5], will be a large-scale construction project.
  - Closure will include a consolidate-and-cap approach where CCRs are removed from a 170-acre area inside the PAP and consolidated into a 250-acre area. Closure will involve moving approximately 1.9 million cubic yards of CCR and subgrade soils over a period of approximately 4 years [5].
- Areas adjacent to the PAP are located within the 100-year and 500-year floodplains of Newton Lake per Federal Emergency Management Area (FEMA) floodplain mapping for the site [6].
- The PAP is also located adjacent to Newton Lake itself, which is a popular local fishing and recreational lake [7].

These factors will require substantial additional effort to evaluate the physical location and dimensions of any proposed corrective action which considers the size of the PAP and limits adverse impacts to proposed closure construction, adjacent floodplains, and adjacent environmentally sensitive water bodies.

Circumstance 4: Future Solar Development

The ease of implementation and time required to begin and complete corrective action at the PAP may be affected by potential future solar development at the site. IPGC is in the planning stages of developing a solar facility over the closed-in-place PAP which could provide renewable, low-carbon energy to Illinois while repurposing the PAP into productive land use. Additional time is required to evaluate potential conflicts between the future solar development that is being considered and potential corrective measures.

REFERENCES

[1] Ramboll Americas Engineering Solutions, Inc., "40 C.F.R. § 257.95(g)(5) Notification for Initiation of Corrective Measures Assessment, Newton Power Plant, Primary Ash Pond," December 5, 2023.

[2] Illinois Power Generating Company, "Newton Primary Ash Pond (IEPA ID: W0798070001-01), Corrective Measures Assessment Schedule Extension Demonstration," November 6, 2023.

[3] Illinois Environmental Protection Agency, "Letter from Michael Summers to Phil Morris; Re: Newton Power Primary Ash Pond - W079807001-01, Corrective Measures Assessment Schedule Extension Request," December 11, 2023.

[4] IngenAE, "Newton Power Plant, Aerial Photography," Earth City, MO, September 9, 2021.

[5] HDR, "Illinois Power Generating Company, Primary Ash Pond, Construction Permit Application," July 2022.

[6] Federal Emergency Management Agency, "Flood Insurance Rate Map, Jasper County, Illinois (Unincorporated Areas)," National Flood Insurance Program, January 17, 1985.

[7] Illinois Department of Natural Resources, "Newton Lake," [Online]. Available: https://www.ifishillinois.org/profiles/waterbody.php?waternum=00225.

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ENVIRONMENT
& HEALTH

CERTIFICATION STATEMENT

CCR Unit: Illinois Power Generating Company Inc; Newton Power Plant, Primary Ash Pond

I, Lucas P. Carr, being a Registered Professional Engineer in good standing with the state of Illinois, do herby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR unit, that the 60-day extension demonstration for the Corrective Measures Assessment has been prepared in accordance with 40 C.F.R. § 257.96(a) and is accurate.

Lucas P. Carr, P.E.
Senior Managing Consultant

1/19/2024

January 19, 2024

