Prepared for
**Dynegy Midwest Generation, LLC**

Date
**January 31, 2024**

Project No.
**1940103649-008**

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

## EAST ASH POND

## HENNEPIN POWER PLANT

## HENNEPIN, ILLINOIS

## CCR UNIT 803

RAMBOLL Bright ideas. Sustainable change.

# 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT HENNEPIN POWER PLANT EAST ASH POND

| | |
|---|---|
| Project name | **Hennepin Power Plant East Ash Pond** |
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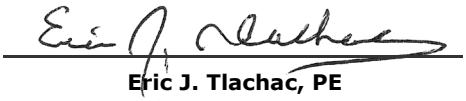

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| 35 I.A.C. | Title 35 of the Illinois Administrative Code |
| 40 C.F.R. | Title 40 of the Code of Federal Regulations |
| A6 | Quarter 1, 2023 Assessment Monitoring sampling event |
| A6R | Quarter 2, 2023 Assessment Monitoring resampling event |
| A6D | Quarter 3, 2023 Assessment Monitoring sampling event |
| A6DR | Quarter 4, 2023 Assessment Monitoring resampling event |
| ASD | Alternate Source Demonstration |
| CCR | coal combustion residuals |
| CMA | Corrective Measures Assessment |
| EAP | East Ash Pond |
| GWPS | groundwater protection standard |
| HPP | Hennepin Power Plant |
| IEPA | Illinois Environmental Protection Agency |
| NA | not applicable |
| 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 East Ash Pond (EAP) located at the Hennepin Power Plant (HPP) near Hennepin, Illinois.

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

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

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

# 1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Dynegy Midwest Generation, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for the EAP located at the HPP near Hennepin, Illinois.

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

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

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

iv. If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV of § 257 pursuant to § 257.95(g) include all of the following:

A. Identify those constituents listed in Appendix IV of § 257 and the names of the monitoring wells associated with such an increase.

B. Provide the date when the assessment of corrective measures was initiated for the CCR unit.

C. Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.

D. Provide the date when the assessment of corrective measures was completed for the CCR unit.

v. Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection.

vi. Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

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

# 2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

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

# 3. KEY ACTIONS COMPLETED IN 2023

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

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

Potentiometric surfaces for the quarterly sampling events are included in **Figures 2 through 5**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 and 35 I.A.C. § 845 in 2023 are presented in **Tables 1 through 3**. All associated laboratory reports and field data sheets are included in **Appendix A**. Analytical data received after December 31, 2023 will be reported in the 2024 Annual Groundwater Monitoring and Corrective Action Report.

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 statistically significant increases (SSIs) of Appendix III parameters greater than background values. SSL notifications were completed in accordance with 40 C.F.R. § 257.95(g). SSIs are highlighted in **Table 2**. Statistical background values are provided in **Table 4** and GWPSs in **Table 5**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**. A summary of the determination of SSLs in 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 [1, 2, 3] | Analytical Data Receipt Date [4, 5] | SSL(s) Determination Date | SSL(s) | ASD Completion Date |
|---|---|---|---|---|---|
| A6 | February 28 – March 2, 2023 | April 14, 2023 | July 13, 2023 | None | NA |
| A6R | May 30 – June 1, 2023 | July 13, 2023 | NA | None | NA |
| A6D | August 23 - 28, 2023 | November 16, 2023 | February 14, 2024 | TBD | TBD |
| A6DR | November 17 and 20, 2023 | TBD | NA | NA | NA |

**Notes:**

ASD: Alternative Source Demonstration

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).

[2] The following background wells were sampled for each event: 07, 08, 08D, 16, and 17

[3] The following compliance wells were sampled for each event: 12, 13, 46, 47, 52, and 54

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

[5] Analytical data received after December 31, 2023 will be reported in the 2024 Annual Groundwater Monitoring and Corrective Action Report.

# 4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

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

# 5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

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

# 6. REFERENCES

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

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

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

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

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

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

# TABLES

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

| Well ID | Well Type | Monitored Unit | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---|---|---|---|---|---|
| 07 | Background | UA | 03/01/2023 | 68.85 | 449.42 |
| 07 | Background | UA | 04/30/2023 | 67.44 | 450.82 |
| 07 | Background | UA | 05/30/2023 | 67.80 | 450.47 |
| 07 | Background | UA | 06/21/2023 | 68.16 | 450.10 |
| 07 | Background | UA | 07/21/2023 | 68.13 | 450.13 |
| 07 | Background | UA | 08/21/2023 | 68.39 | 449.87 |
| 07 | Background | UA | 10/31/2023 | 68.55 | 449.72 |
| 07 | Background | UA | 11/13/2023 | 68.54 | 449.73 |
| 07 | Background | UA | 12/21/2023 | 69.03 | 449.24 |
| 08 | Background | UA | 03/01/2023 | 54.20 | 447.18 |
| 08 | Background | UA | 04/30/2023 | 53.22 | 448.15 |
| 08 | Background | UA | 05/30/2023 | 53.84 | 447.54 |
| 08 | Background | UA | 06/21/2023 | 53.99 | 447.38 |
| 08 | Background | UA | 07/21/2023 | 53.66 | 447.71 |
| 08 | Background | UA | 08/21/2023 | 54.24 | 447.13 |
| 08 | Background | UA | 09/30/2023 | 54.43 | 446.95 |
| 08 | Background | UA | 10/31/2023 | 53.85 | 447.53 |
| 08 | Background | UA | 11/13/2023 | 54.02 | 447.36 |
| 08 | Background | UA | 12/21/2023 | 54.80 | 446.58 |
| 08D | Background | UA | 03/01/2023 | 54.27 | 447.07 |
| 08D | Background | UA | 04/30/2023 | 53.49 | 447.84 |
| 08D | Background | UA | 05/30/2023 | 54.12 | 447.22 |
| 08D | Background | UA | 06/21/2023 | 54.12 | 447.21 |
| 08D | Background | UA | 07/21/2023 | 53.75 | 447.58 |
| 08D | Background | UA | 08/21/2023 | 54.44 | 446.89 |
| 08D | Background | UA | 09/30/2023 | 54.61 | 446.73 |
| 08D | Background | UA | 10/31/2023 | 54.04 | 447.30 |
| 08D | Background | UA | 11/13/2023 | 54.23 | 447.11 |
| 08D | Background | UA | 12/21/2023 | 55.00 | 446.34 |
| 12 | Compliance | UA | 03/01/2023 | 51.32 | 447.12 |
| 12 | Compliance | UA | 05/30/2023 | 51.21 | 447.23 |
| 12 | Compliance | UA | 09/30/2023 | 51.66 | 446.78 |
| 12 | Compliance | UA | 10/31/2023 | 51.07 | 447.37 |
| 12 | Compliance | UA | 11/13/2023 | 52.26 | 446.18 |
| 12 | Compliance | UA | 12/21/2023 | 52.05 | 446.39 |
| 13 | Compliance | UA | 03/01/2023 | 51.30 | 447.17 |
| 13 | Compliance | UA | 04/30/2023 | 50.50 | 447.96 |
| 13 | Compliance | UA | 05/30/2023 | 51.21 | 447.26 |
| 13 | Compliance | UA | 06/21/2023 | 51.12 | 447.34 |
| 13 | Compliance | UA | 07/21/2023 | 50.75 | 447.71 |
| 13 | Compliance | UA | 08/21/2023 | 51.40 | 447.06 |
| 13 | Compliance | UA | 09/30/2023 | 51.52 | 446.95 |
| 13 | Compliance | UA | 10/31/2023 | 51.08 | 447.39 |
| 13 | Compliance | UA | 11/13/2023 | 51.25 | 447.22 |
| 13 | Compliance | UA | 12/21/2023 | 52.05 | 446.42 |
| 16 | Background | UA | 02/28/2023 | 54.86 | 446.88 |

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

| Well ID | Well Type | Monitored Unit | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---|---|---|---|---|---|
| 16 | Background | UA | 05/30/2023 | 54.57 | 447.17 |
| 16 | Background | UA | 08/28/2023 | [53.90] | [447.84] |
| 16 | Background | UA | 08/28/2023 | [53.90] | [447.84] |
| 16 | Background | UA | 10/31/2023 | 54.47 | 447.27 |
| 16 | Background | UA | 11/13/2023 | 54.67 | 447.07 |
| 16 | Background | UA | 12/21/2023 | 55.45 | 446.29 |
| 17 | Background | UA | 02/28/2023 | 59.08 | 448.05 |
| 17 | Background | UA | 04/30/2023 | 56.31 | 450.81 |
| 17 | Background | UA | 05/30/2023 | 55.96 | 451.17 |
| 17 | Background | UA | 06/21/2023 | 54.99 | 452.13 |
| 17 | Background | UA | 07/21/2023 | 54.68 | 452.44 |
| 17 | Background | UA | 08/21/2023 | 56.12 | 451.00 |
| 17 | Background | UA | 10/31/2023 | 55.56 | 451.57 |
| 17 | Background | UA | 11/13/2023 | 56.23 | 450.90 |
| 17 | Background | UA | 12/21/2023 | 59.29 | 447.84 |
| 46 | Compliance | UA | 02/28/2023 | 51.67 | 447.08 |
| 46 | Compliance | UA | 04/30/2023 | 50.70 | 448.04 |
| 46 | Compliance | UA | 05/30/2023 | 51.40 | 447.35 |
| 46 | Compliance | UA | 06/21/2023 | 51.39 | 447.35 |
| 46 | Compliance | UA | 07/21/2023 | 51.02 | 447.72 |
| 46 | Compliance | UA | 08/21/2023 | 51.71 | 447.03 |
| 46 | Compliance | UA | 10/31/2023 | 51.22 | 447.53 |
| 46 | Compliance | UA | 11/13/2023 | 51.46 | 447.29 |
| 46 | Compliance | UA | 12/21/2023 | 52.30 | 446.45 |
| 47 | Compliance | UA | 03/01/2023 | 55.79 | 446.86 |
| 47 | Compliance | UA | 04/30/2023 | 54.95 | 447.69 |
| 47 | Compliance | UA | 05/30/2023 | 55.66 | 446.99 |
| 47 | Compliance | UA | 06/21/2023 | 55.56 | 447.08 |
| 47 | Compliance | UA | 07/21/2023 | 55.22 | 447.42 |
| 47 | Compliance | UA | 08/21/2023 | 55.85 | 446.79 |
| 47 | Compliance | UA | 09/30/2023 | 55.99 | 446.66 |
| 47 | Compliance | UA | 10/31/2023 | 55.52 | 447.13 |
| 47 | Compliance | UA | 11/13/2023 | 55.72 | 446.93 |
| 47 | Compliance | UA | 12/21/2023 | 56.49 | 446.16 |
| 52 | Compliance | UA | 02/28/2023 | 54.05 | 446.88 |
| 52 | Compliance | UA | 04/30/2023 | 53.05 | 447.87 |
| 52 | Compliance | UA | 05/30/2023 | 53.89 | 447.04 |
| 52 | Compliance | UA | 06/21/2023 | 53.74 | 447.18 |
| 52 | Compliance | UA | 07/21/2023 | 53.35 | 447.57 |
| 52 | Compliance | UA | 08/21/2023 | 54.01 | 446.91 |
| 52 | Compliance | UA | 09/30/2023 | 54.07 | 446.86 |
| 52 | Compliance | UA | 10/31/2023 | 53.68 | 447.25 |
| 52 | Compliance | UA | 11/13/2023 | 53.88 | 447.05 |
| 52 | Compliance | UA | 12/21/2023 | 54.66 | 446.27 |
| 54 | Compliance | UA | 03/01/2023 | 53.35 | 446.95 |
| 54 | Compliance | UA | 04/30/2023 | 52.47 | 447.82 |

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

| Well ID | Well Type | Monitored Unit | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---|---|---|---|---|---|
| 54 | Compliance | UA | 05/30/2023 | 53.23 | 447.07 |
| 54 | Compliance | UA | 06/21/2023 | 53.16 | 447.13 |
| 54 | Compliance | UA | 07/21/2023 | 52.80 | 447.49 |
| 54 | Compliance | UA | 08/21/2023 | 53.44 | 446.85 |
| 54 | Compliance | UA | 09/30/2023 | 53.54 | 446.76 |
| 54 | Compliance | UA | 10/31/2023 | 53.07 | 447.23 |
| 54 | Compliance | UA | 11/13/2023 | 53.31 | 446.99 |
| 54 | Compliance | UA | 12/21/2023 | 54.06 | 446.24 |
| XSG01 | Water Level | CCR | 02/28/2023 | 12.00 | 481.49 |
| XSG01 | Water Level | CCR | 05/30/2023 | 7.17 | 486.32 |
| XSG01 | Water Level | CCR | 10/31/2023 | 10.29 | 483.20 |
| XSG01 | Water Level | CCR | 11/13/2023 | 10.28 | 483.21 |
| XSG01 | Water Level | CCR | 12/21/2023 | 10.21 | 483.28 |
| SG02 | Water Level | SW | 03/02/2023 | NA | 449.50 |
| SG02 | Water Level | SW | 04/30/2023 | NA | 448.50 |
| SG02 | Water Level | SW | 05/30/2023 | NA | 440.50 |
| SG02 | Water Level | SW | 06/21/2023 | NA | 440.50 |
| SG02 | Water Level | SW | 07/21/2023 | NA | 441.75 |
| SG02 | Water Level | SW | 08/21/2023 | NA | 440.75 |
| SG02 | Water Level | SW | 09/30/2023 | NA | 440.75 |
| SG02 | Water Level | SW | 10/31/2023 | NA | 441.50 |
| SG02 | Water Level | SW | 11/13/2023 | NA | 441.00 |
| SG02 | Water Level | SW | 12/21/2023 | NA | 441.75 |

**Notes:**
Only wells with groundwater elevations measured are included.
BMP = below measuring point
Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:

CCR = coal combustion residuals

SW = surface water

UA = uppermost aquifer

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 07 | UA | Background | 03/01/2023 | A6 | Boron, total | mg/L | 0.0658 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | Boron, total | mg/L | 0.0701 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | Boron, total | mg/L | 0.0670 | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | Boron, total | mg/L | 0.05 UJ | NA | NA |
| 07 | UA | Background | 03/01/2023 | A6 | Calcium, total | mg/L | 146 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | Calcium, total | mg/L | 144 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | Calcium, total | mg/L | 94.0 | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | Calcium, total | mg/L | 120 | NA | NA |
| 07 | UA | Background | 03/01/2023 | A6 | Chloride, total | mg/L | 105 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | Chloride, total | mg/L | 68.0 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | Chloride, total | mg/L | 51.0 | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | Chloride, total | mg/L | 86.0 | NA | NA |
| 07 | UA | Background | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.120 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | Fluoride, total | mg/L | 0.100 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | Fluoride, total | mg/L | 0.24 J | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | Fluoride, total | mg/L | 0.120 | NA | NA |
| 07 | UA | Background | 03/01/2023 | A6 | pH (field) | SU | 7.0 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | pH (field) | SU | 6.7 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | pH (field) | SU | 6.9 | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | pH (field) | SU | 7.0 | NA | NA |
| 07 | UA | Background | 03/01/2023 | A6 | Sulfate, total | mg/L | 76.0 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | Sulfate, total | mg/L | 109 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | Sulfate, total | mg/L | 67.0 | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | Sulfate, total | mg/L | 56.0 | NA | NA |
| 07 | UA | Background | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 638 | NA | NA |
| 07 | UA | Background | 06/01/2023 | A6R | Total Dissolved Solids | mg/L | 730 | NA | NA |
| 07 | UA | Background | 08/24/2023 | A6D | Total Dissolved Solids | mg/L | 640 | NA | NA |
| 07 | UA | Background | 11/20/2023 | A6DR | Total Dissolved Solids | mg/L | 690 | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | Boron, total | mg/L | 0.118 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | Boron, total | mg/L | 0.121 | NA | NA |
| 08 | UA | Background | 08/24/2023 | A6D | Boron, total | mg/L | 0.0700 | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | Boron, total | mg/L | 0.0950 J+ | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | Calcium, total | mg/L | 176 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | Calcium, total | mg/L | 0.035 U | NA | NA |
| 08 | UA | Background | 08/24/2023 | A6D | Calcium, total | mg/L | 160 | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | Calcium, total | mg/L | 200 | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | Chloride, total | mg/L | 227 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | Chloride, total | mg/L | 149 | NA | NA |
| 08 | UA | Background | 08/24/2023 | A6D | Chloride, total | mg/L | 240 | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | Chloride, total | mg/L | 260 | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.100 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | Fluoride, total | mg/L | 0.09 J | NA | NA |
| 08 | UA | Background | 08/24/2023 | A6D | Fluoride, total | mg/L | 0.19 J | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.089 J | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | pH (field) | SU | 6.7 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | pH (field) | SU | 6.5 | NA | NA |

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 08 | UA | Background | 08/24/2023 | A6D | pH (field) | SU | 6.7 | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | pH (field) | SU | 6.9 | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | Sulfate, total | mg/L | 129 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | Sulfate, total | mg/L | 134 J | NA | NA |
| 08 | UA | Background | 08/24/2023 | A6D | Sulfate, total | mg/L | 100 | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | Sulfate, total | mg/L | 120 | NA | NA |
| 08 | UA | Background | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 1,020 | NA | NA |
| 08 | UA | Background | 06/01/2023 | A6R | Total Dissolved Solids | mg/L | 902 | NA | NA |
| 08 | UA | Background | 08/24/2023 | A6D | Total Dissolved Solids | mg/L | 1,100 | NA | NA |
| 08 | UA | Background | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 1,100 | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | Boron, total | mg/L | 0.0942 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | Boron, total | mg/L | 0.0842 | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | Boron, total | mg/L | 0.0510 | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | Boron, total | mg/L | 0.0710 J+ | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | Calcium, total | mg/L | 255 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | Calcium, total | mg/L | 200 | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | Calcium, total | mg/L | 200 | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | Calcium, total | mg/L | 180 | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | Chloride, total | mg/L | 319 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | Chloride, total | mg/L | 285 | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | Chloride, total | mg/L | 310 | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | Chloride, total | mg/L | 250 | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.100 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | Fluoride, total | mg/L | 0.08 J | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | Fluoride, total | mg/L | 0.19 U | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.097 J | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | pH (field) | SU | 6.5 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | pH (field) | SU | 6.6 | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | pH (field) | SU | 6.6 | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | pH (field) | SU | 6.8 | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | Sulfate, total | mg/L | 279 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | Sulfate, total | mg/L | 198 | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | Sulfate, total | mg/L | 170 | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | Sulfate, total | mg/L | 130 | NA | NA |
| 08D | UA | Background | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 1,440 | NA | NA |
| 08D | UA | Background | 05/31/2023 | A6R | Total Dissolved Solids | mg/L | 1,290 | NA | NA |
| 08D | UA | Background | 08/24/2023 | A6D | Total Dissolved Solids | mg/L | 1,400 | NA | NA |
| 08D | UA | Background | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 1,300 | NA | NA |
| 16 | UA | Background | 02/28/2023 | A6 | Boron, total | mg/L | 0.207 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | Boron, total | mg/L | 0.116 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | Boron, total | mg/L | 0.110 | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | Boron, total | mg/L | 0.0790 J+ | NA | NA |
| 16 | UA | Background | 02/28/2023 | A6 | Calcium, total | mg/L | 99.4 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | Calcium, total | mg/L | 68.6 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | Calcium, total | mg/L | 73.0 | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | Calcium, total | mg/L | 82.0 | NA | NA |

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 16 | UA | Background | 02/28/2023 | A6 | Chloride, total | mg/L | 92.0 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | Chloride, total | mg/L | 83.0 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | Chloride, total | mg/L | 81.0 | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | Chloride, total | mg/L | 79.0 | NA | NA |
| 16 | UA | Background | 02/28/2023 | A6 | Fluoride, total | mg/L | 0.240 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | Fluoride, total | mg/L | 0.230 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | Fluoride, total | mg/L | 0.31 J | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.220 | NA | NA |
| 16 | UA | Background | 02/28/2023 | A6 | pH (field) | SU | 7.2 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | pH (field) | SU | 7.2 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | pH (field) | SU | 7.2 | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | pH (field) | SU | 7.3 | NA | NA |
| 16 | UA | Background | 02/28/2023 | A6 | Sulfate, total | mg/L | 78.0 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | Sulfate, total | mg/L | 68.0 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | Sulfate, total | mg/L | 56.0 | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | Sulfate, total | mg/L | 64.0 | NA | NA |
| 16 | UA | Background | 02/28/2023 | A6 | Total Dissolved Solids | mg/L | 508 | NA | NA |
| 16 | UA | Background | 06/01/2023 | A6R | Total Dissolved Solids | mg/L | 502 | NA | NA |
| 16 | UA | Background | 08/28/2023 | A6D | Total Dissolved Solids | mg/L | 450 | NA | NA |
| 16 | UA | Background | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 420 | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | Boron, total | mg/L | 0.106 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | Boron, total | mg/L | 0.0829 | NA | NA |
| 17 | UA | Background | 08/28/2023 | A6D | Boron, total | mg/L | 0.0760 | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | Boron, total | mg/L | 0.110 J+ | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | Calcium, total | mg/L | 133 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | Calcium, total | mg/L | 94.6 | NA | NA |
| 17 | UA | Background | 08/28/2023 | A6D | Calcium, total | mg/L | 58.0 | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | Calcium, total | mg/L | 74.0 | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | Chloride, total | mg/L | 108 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | Chloride, total | mg/L | 91.0 | NA | NA |
| 17 | UA | Background | 08/28/2023 | A6D | Chloride, total | mg/L | 80.0 | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | Chloride, total | mg/L | 90.0 | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | Fluoride, total | mg/L | 0.130 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | Fluoride, total | mg/L | 0.130 | NA | NA |
| 17 | UA | Background | 08/28/2023 | A6D | Fluoride, total | mg/L | 0.36 J | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.210 | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | pH (field) | SU | 7.0 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | pH (field) | SU | 7.0 | NA | NA |
| 17 | UA | Background | 08/28/2023 | A6D | pH (field) | SU | 7.3 | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | pH (field) | SU | 7.3 | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | Sulfate, total | mg/L | 77.0 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | Sulfate, total | mg/L | 76.0 | NA | NA |
| 17 | UA | Background | 08/28/2023 | A6D | Sulfate, total | mg/L | 58.0 | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | Sulfate, total | mg/L | 62.0 | NA | NA |
| 17 | UA | Background | 02/28/2023 | A6 | Total Dissolved Solids | mg/L | 630 | NA | NA |
| 17 | UA | Background | 06/01/2023 | A6R | Total Dissolved Solids | mg/L | 498 | NA | NA |

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 17 | UA | Background | 08/28/2023 | A6D | Total Dissolved Solids | mg/L | 420 | NA | NA |
| 17 | UA | Background | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 500 | NA | NA |
| 12 | UA | Compliance | 03/01/2023 | A6 | Boron, total | mg/L | 0.192 | 0.153 | Exceedance Not Confirmed |
| 12 | UA | Compliance | 05/31/2023 | A6R | Boron, total | mg/L | 0.114 | 0.153 | No Exceedance |
| 12 | UA | Compliance | 08/23/2023 | A6D | Boron, total | mg/L | 0.100 | 0.153 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | Boron, total | mg/L | 0.130 J+ | 0.153 | TBD |
| 12 | UA | Compliance | 03/01/2023 | A6 | Calcium, total | mg/L | 85.1 | 280 | No Exceedance |
| 12 | UA | Compliance | 05/31/2023 | A6R | Calcium, total | mg/L | 71.7 | 280 | No Exceedance |
| 12 | UA | Compliance | 08/23/2023 | A6D | Calcium, total | mg/L | 73.0 | 280 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | Calcium, total | mg/L | 77.0 | 280 | TBD |
| 12 | UA | Compliance | 03/01/2023 | A6 | Chloride, total | mg/L | 92.0 | 396 | No Exceedance |
| 12 | UA | Compliance | 05/31/2023 | A6R | Chloride, total | mg/L | 78.0 | 396 | No Exceedance |
| 12 | UA | Compliance | 08/23/2023 | A6D | Chloride, total | mg/L | 83.0 | 396 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | Chloride, total | mg/L | 72.0 | 396 | TBD |
| 12 | UA | Compliance | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.230 | 0.120 | Confirmed |
| 12 | UA | Compliance | 05/31/2023 | A6R | Fluoride, total | mg/L | 0.180 | 0.120 | Confirmed |
| 12 | UA | Compliance | 08/23/2023 | A6D | Fluoride, total | mg/L | 0.3 J | 0.120 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.210 | 0.120 | TBD |
| 12 | UA | Compliance | 03/01/2023 | A6 | pH (field) | SU | 7.3 | 6.6/7.5 | No Exceedance |
| 12 | UA | Compliance | 05/31/2023 | A6R | pH (field) | SU | 7.2 | 6.6/7.5 | No Exceedance |
| 12 | UA | Compliance | 08/23/2023 | A6D | pH (field) | SU | 7.3 | 6.6/7.5 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | pH (field) | SU | 7.3 | 6.6/7.5 | TBD |
| 12 | UA | Compliance | 03/01/2023 | A6 | Sulfate, total | mg/L | 84.0 | 200 | No Exceedance |
| 12 | UA | Compliance | 05/31/2023 | A6R | Sulfate, total | mg/L | 64.0 | 200 | No Exceedance |
| 12 | UA | Compliance | 08/23/2023 | A6D | Sulfate, total | mg/L | 65.0 | 200 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | Sulfate, total | mg/L | 63.0 | 200 | TBD |
| 12 | UA | Compliance | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 488 | 1520 | No Exceedance |
| 12 | UA | Compliance | 05/31/2023 | A6R | Total Dissolved Solids | mg/L | 474 | 1520 | No Exceedance |
| 12 | UA | Compliance | 08/23/2023 | A6D | Total Dissolved Solids | mg/L | 500 | 1520 | TBD |
| 12 | UA | Compliance | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 470 | 1520 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | Boron, total | mg/L | 0.942 | 0.153 | Exceedance Not Confirmed |
| 13 | UA | Compliance | 05/31/2023 | A6R | Boron, total | mg/L | 0.107 | 0.153 | No Exceedance |
| 13 | UA | Compliance | 08/23/2023 | A6D | Boron, total | mg/L | 0.130 | 0.153 | TBD |
| 13 | UA | Compliance | 11/17/2023 | A6DR | Boron, total | mg/L | 0.200 J+ | 0.153 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | Calcium, total | mg/L | 87.1 | 280 | No Exceedance |
| 13 | UA | Compliance | 05/31/2023 | A6R | Calcium, total | mg/L | 72.7 | 280 | No Exceedance |
| 13 | UA | Compliance | 08/23/2023 | A6D | Calcium, total | mg/L | 75.0 | 280 | TBD |
| 13 | UA | Compliance | 11/17/2023 | A6DR | Calcium, total | mg/L | 76.0 | 280 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | Chloride, total | mg/L | 94.0 | 396 | No Exceedance |
| 13 | UA | Compliance | 05/31/2023 | A6R | Chloride, total | mg/L | 90.0 | 396 | No Exceedance |
| 13 | UA | Compliance | 08/23/2023 | A6D | Chloride, total | mg/L | 81.0 | 396 | TBD |
| 13 | UA | Compliance | 11/17/2023 | A6DR | Chloride, total | mg/L | 69.0 | 396 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.220 | 0.120 | Confirmed |
| 13 | UA | Compliance | 05/31/2023 | A6R | Fluoride, total | mg/L | 0.160 | 0.120 | Confirmed |
| 13 | UA | Compliance | 08/23/2023 | A6D | Fluoride, total | mg/L | 0.27 J | 0.120 | TBD |

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 13 | UA | Compliance | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.200 | 0.120 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | pH (field) | SU | 7.3 | 6.6/7.5 | No Exceedance |
| 13 | UA | Compliance | 05/31/2023 | A6R | pH (field) | SU | 7.2 | 6.6/7.5 | No Exceedance |
| 13 | UA | Compliance | 08/23/2023 | A6D | pH (field) | SU | 7.4 | 6.6/7.5 | TBD |
| 13 | UA | Compliance | 11/17/2023 | A6DR | pH (field) | SU | 7.5 | 6.6/7.5 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | Sulfate, total | mg/L | 122 | 200 | No Exceedance |
| 13 | UA | Compliance | 05/31/2023 | A6R | Sulfate, total | mg/L | 73.0 | 200 | No Exceedance |
| 13 | UA | Compliance | 08/23/2023 | A6D | Sulfate, total | mg/L | 68.0 | 200 | TBD |
| 13 | UA | Compliance | 11/17/2023 | A6DR | Sulfate, total | mg/L | 63.0 | 200 | TBD |
| 13 | UA | Compliance | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 498 | 1520 | No Exceedance |
| 13 | UA | Compliance | 05/31/2023 | A6R | Total Dissolved Solids | mg/L | 408 | 1520 | No Exceedance |
| 13 | UA | Compliance | 08/23/2023 | A6D | Total Dissolved Solids | mg/L | 480 | 1520 | TBD |
| 13 | UA | Compliance | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 500 | 1520 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | Boron, total | mg/L | 0.244 | 0.153 | Exceedance Not Confirmed |
| 46 | UA | Compliance | 05/31/2023 | A6R | Boron, total | mg/L | 0.133 | 0.153 | No Exceedance |
| 46 | UA | Compliance | 08/23/2023 | A6D | Boron, total | mg/L | 0.110 | 0.153 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | Boron, total | mg/L | 0.120 J+ | 0.153 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | Calcium, total | mg/L | 84.6 | 280 | No Exceedance |
| 46 | UA | Compliance | 05/31/2023 | A6R | Calcium, total | mg/L | 72.7 | 280 | No Exceedance |
| 46 | UA | Compliance | 08/23/2023 | A6D | Calcium, total | mg/L | 74.0 | 280 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | Calcium, total | mg/L | 79.0 | 280 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | Chloride, total | mg/L | 94.0 | 396 | No Exceedance |
| 46 | UA | Compliance | 05/31/2023 | A6R | Chloride, total | mg/L | 86.0 | 396 | No Exceedance |
| 46 | UA | Compliance | 08/23/2023 | A6D | Chloride, total | mg/L | 84.0 | 396 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | Chloride, total | mg/L | 70.0 | 396 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | Fluoride, total | mg/L | 0.240 | 0.120 | Confirmed |
| 46 | UA | Compliance | 05/31/2023 | A6R | Fluoride, total | mg/L | 0.170 | 0.120 | Confirmed |
| 46 | UA | Compliance | 08/23/2023 | A6D | Fluoride, total | mg/L | 0.31 J | 0.120 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | Fluoride, total | mg/L | 0.220 | 0.120 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | pH (field) | SU | 7.3 | 6.6/7.5 | No Exceedance |
| 46 | UA | Compliance | 05/31/2023 | A6R | pH (field) | SU | 7.1 | 6.6/7.5 | No Exceedance |
| 46 | UA | Compliance | 08/23/2023 | A6D | pH (field) | SU | 7.3 | 6.6/7.5 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | pH (field) | SU | 7.3 | 6.6/7.5 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | Sulfate, total | mg/L | 86.0 | 200 | No Exceedance |
| 46 | UA | Compliance | 05/31/2023 | A6R | Sulfate, total | mg/L | 91.0 | 200 | No Exceedance |
| 46 | UA | Compliance | 08/23/2023 | A6D | Sulfate, total | mg/L | 87.0 | 200 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | Sulfate, total | mg/L | 61.0 | 200 | TBD |
| 46 | UA | Compliance | 02/28/2023 | A6 | Total Dissolved Solids | mg/L | 496 | 1520 | No Exceedance |
| 46 | UA | Compliance | 05/31/2023 | A6R | Total Dissolved Solids | mg/L | 464 | 1520 | No Exceedance |
| 46 | UA | Compliance | 08/23/2023 | A6D | Total Dissolved Solids | mg/L | 460 | 1520 | TBD |
| 46 | UA | Compliance | 11/20/2023 | A6DR | Total Dissolved Solids | mg/L | 490 | 1520 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | Boron, total | mg/L | 0.277 | 0.153 | Confirmed |
| 47 | UA | Compliance | 05/31/2023 | A6R | Boron, total | mg/L | 0.378 | 0.153 | Confirmed |
| 47 | UA | Compliance | 08/23/2023 | A6D | Boron, total | mg/L | 0.470 | 0.153 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | Boron, total | mg/L | 0.360 | 0.153 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | Calcium, total | mg/L | 109 | 280 | No Exceedance |

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 47 | UA | Compliance | 05/31/2023 | A6R | Calcium, total | mg/L | 88.2 | 280 | No Exceedance |
| 47 | UA | Compliance | 08/23/2023 | A6D | Calcium, total | mg/L | 89.0 | 280 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | Calcium, total | mg/L | 94.0 | 280 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | Chloride, total | mg/L | 111 | 396 | No Exceedance |
| 47 | UA | Compliance | 05/31/2023 | A6R | Chloride, total | mg/L | 77.0 | 396 | No Exceedance |
| 47 | UA | Compliance | 08/23/2023 | A6D | Chloride, total | mg/L | 97.0 | 396 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | Chloride, total | mg/L | 83.0 | 396 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.290 | 0.120 | Confirmed |
| 47 | UA | Compliance | 05/31/2023 | A6R | Fluoride, total | mg/L | 0.270 | 0.120 | Confirmed |
| 47 | UA | Compliance | 08/23/2023 | A6D | Fluoride, total | mg/L | 0.35 J | 0.120 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.280 | 0.120 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | pH (field) | SU | 7.0 | 6.6/7.5 | No Exceedance |
| 47 | UA | Compliance | 05/31/2023 | A6R | pH (field) | SU | 6.9 | 6.6/7.5 | No Exceedance |
| 47 | UA | Compliance | 08/23/2023 | A6D | pH (field) | SU | 7.0 | 6.6/7.5 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | pH (field) | SU | 7.1 | 6.6/7.5 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | Sulfate, total | mg/L | 86.0 | 200 | No Exceedance |
| 47 | UA | Compliance | 05/31/2023 | A6R | Sulfate, total | mg/L | 85.0 | 200 | No Exceedance |
| 47 | UA | Compliance | 08/23/2023 | A6D | Sulfate, total | mg/L | 80.0 | 200 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | Sulfate, total | mg/L | 68.0 | 200 | TBD |
| 47 | UA | Compliance | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 570 | 1520 | No Exceedance |
| 47 | UA | Compliance | 05/31/2023 | A6R | Total Dissolved Solids | mg/L | 512 | 1520 | No Exceedance |
| 47 | UA | Compliance | 08/23/2023 | A6D | Total Dissolved Solids | mg/L | 520 | 1520 | TBD |
| 47 | UA | Compliance | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 550 | 1520 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | Boron, total | mg/L | 0.285 | 0.153 | Confirmed |
| 52 | UA | Compliance | 06/01/2023 | A6R | Boron, total | mg/L | 0.195 | 0.153 | Confirmed |
| 52 | UA | Compliance | 08/24/2023 | A6D | Boron, total | mg/L | 0.160 | 0.153 | TBD |
| 52 | UA | Compliance | 11/20/2023 | A6DR | Boron, total | mg/L | 0.210 J+ | 0.153 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | Calcium, total | mg/L | 93.6 | 280 | No Exceedance |
| 52 | UA | Compliance | 06/01/2023 | A6R | Calcium, total | mg/L | 79.0 | 280 | No Exceedance |
| 52 | UA | Compliance | 08/24/2023 | A6D | Calcium, total | mg/L | 85.0 | 280 | TBD |
| 52 | UA | Compliance | 11/20/2023 | A6DR | Calcium, total | mg/L | 94.0 | 280 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | Chloride, total | mg/L | 93.0 | 396 | No Exceedance |
| 52 | UA | Compliance | 06/01/2023 | A6R | Chloride, total | mg/L | 88.0 | 396 | No Exceedance |
| 52 | UA | Compliance | 08/24/2023 | A6D | Chloride, total | mg/L | 88.0 | 396 | TBD |
| 52 | UA | Compliance | 11/20/2023 | A6DR | Chloride, total | mg/L | 85.0 | 396 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | Fluoride, total | mg/L | 0.280 | 0.120 | Confirmed |
| 52 | UA | Compliance | 06/01/2023 | A6R | Fluoride, total | mg/L | 0.250 | 0.120 | Confirmed |
| 52 | UA | Compliance | 08/24/2023 | A6D | Fluoride, total | mg/L | 0.34 J | 0.120 | TBD |
| 52 | UA | Compliance | 11/20/2023 | A6DR | Fluoride, total | mg/L | 0.230 | 0.120 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | pH (field) | SU | 7.2 | 6.6/7.5 | No Exceedance |
| 52 | UA | Compliance | 06/01/2023 | A6R | pH (field) | SU | 7.5 | 6.6/7.5 | No Exceedance |
| 52 | UA | Compliance | 08/24/2023 | A6D | pH (field) | SU | 7.0 | 6.6/7.5 | TBD |
| 52 | UA | Compliance | 11/20/2023 | A6DR | pH (field) | SU | 7.1 | 6.6/7.5 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | Sulfate, total | mg/L | 79.0 | 200 | No Exceedance |
| 52 | UA | Compliance | 06/01/2023 | A6R | Sulfate, total | mg/L | 77.0 | 200 | No Exceedance |
| 52 | UA | Compliance | 08/24/2023 | A6D | Sulfate, total | mg/L | 62.0 | 200 | TBD |

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

| Well ID | HSU | Well Type | Date | Event ID | Parameter | Unit | Result | Background | SSI Type |
|---|---|---|---|---|---|---|---|---|---|
| 52 | UA | Compliance | 11/20/2023 | A6DR | Sulfate, total | mg/L | 66.0 | 200 | TBD |
| 52 | UA | Compliance | 02/28/2023 | A6 | Total Dissolved Solids | mg/L | 506 | 1520 | No Exceedance |
| 52 | UA | Compliance | 06/01/2023 | A6R | Total Dissolved Solids | mg/L | 456 | 1520 | No Exceedance |
| 52 | UA | Compliance | 08/24/2023 | A6D | Total Dissolved Solids | mg/L | 520 | 1520 | TBD |
| 52 | UA | Compliance | 11/20/2023 | A6DR | Total Dissolved Solids | mg/L | 520 | 1520 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | Boron, total | mg/L | 0.967 | 0.153 | Confirmed |
| 54 | UA | Compliance | 05/31/2023 | A6R | Boron, total | mg/L | 0.294 | 0.153 | Confirmed |
| 54 | UA | Compliance | 08/23/2023 | A6D | Boron, total | mg/L | 0.230 | 0.153 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | Boron, total | mg/L | 0.410 | 0.153 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | Calcium, total | mg/L | 96.2 | 280 | No Exceedance |
| 54 | UA | Compliance | 05/31/2023 | A6R | Calcium, total | mg/L | 85.9 | 280 | No Exceedance |
| 54 | UA | Compliance | 08/23/2023 | A6D | Calcium, total | mg/L | 77.0 | 280 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | Calcium, total | mg/L | 72.0 | 280 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | Chloride, total | mg/L | 93.0 | 396 | No Exceedance |
| 54 | UA | Compliance | 05/31/2023 | A6R | Chloride, total | mg/L | 84.0 | 396 | No Exceedance |
| 54 | UA | Compliance | 08/23/2023 | A6D | Chloride, total | mg/L | 84.0 | 396 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | Chloride, total | mg/L | 74.0 | 396 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | Fluoride, total | mg/L | 0.300 | 0.120 | Confirmed |
| 54 | UA | Compliance | 05/31/2023 | A6R | Fluoride, total | mg/L | 0.200 | 0.120 | Confirmed |
| 54 | UA | Compliance | 08/23/2023 | A6D | Fluoride, total | mg/L | 0.33 J | 0.120 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | Fluoride, total | mg/L | 0.280 | 0.120 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | pH (field) | SU | 7.2 | 6.6/7.5 | No Exceedance |
| 54 | UA | Compliance | 05/31/2023 | A6R | pH (field) | SU | 7.1 | 6.6/7.5 | No Exceedance |
| 54 | UA | Compliance | 08/23/2023 | A6D | pH (field) | SU | 7.3 | 6.6/7.5 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | pH (field) | SU | 7.4 | 6.6/7.5 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | Sulfate, total | mg/L | 107 | 200 | No Exceedance |
| 54 | UA | Compliance | 05/31/2023 | A6R | Sulfate, total | mg/L | 76.0 | 200 | No Exceedance |
| 54 | UA | Compliance | 08/23/2023 | A6D | Sulfate, total | mg/L | 85.0 | 200 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | Sulfate, total | mg/L | 75.0 | 200 | TBD |
| 54 | UA | Compliance | 03/01/2023 | A6 | Total Dissolved Solids | mg/L | 538 | 1520 | No Exceedance |
| 54 | UA | Compliance | 05/31/2023 | A6R | Total Dissolved Solids | mg/L | 480 | 1520 | No Exceedance |
| 54 | UA | Compliance | 08/23/2023 | A6D | Total Dissolved Solids | mg/L | 510 | 1520 | TBD |
| 54 | UA | Compliance | 11/17/2023 | A6DR | Total Dissolved Solids | mg/L | 490 | 1520 | TBD |

**Notes:**
HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

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 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.

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**TABLE 3**
**ANALYTICAL RESULTS - APPENDIX IV PARAMETERS**
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 07 | B | 03/01/2023 | A6 | 0.00170 | 0.0004 U | 0.154 | 0.0002 U | 0.0002 U | 0.0008 J | 0.0460 | 0.120 | 0.0006 U | 0.00850 | 0.00007 U | 0.001 J | 2.00 | 0.0006 U | 0.001 U |
| 07 | B | 06/01/2023 | A6R | 0.0004 U | 0.0087 U | 0.124 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0875 | 0.100 | 0.004 U | 0.0038 U | 0.00006 U | 0.0037 U | 0.203 | 0.0006 U | 0.001 U |
| 07 | B | 08/24/2023 | A6D | 0.0013 U | 0.001 UJ | 0.120 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0360 | 0.24 J | 0.00019 U | 0.00990 | 0.000079 U | 0.0025 U | 0.647 | 0.00098 U | 0.00057 U |
| 08 | B | 03/01/2023 | A6 | 0.0008 J | 0.0004 U | 0.116 | 0.0002 U | 0.0005 J | 0.0007 U | 0.00790 | 0.100 | 0.0006 U | 0.0123 | 0.00007 U | 0.00180 | 0.871 | 0.0006 U | 0.001 U |
| 08 | B | 06/01/2023 | A6R | 0.0004 U | 0.0087 U | 0.0883 | 0.0002 U | 0.0005 U | 0.0028 U | 0.00320 | 0.09 J | 0.004 U | 0.00900 J+ | 0.00006 U | 0.0037 U | 0.598 | 0.0006 U | 0.001 U |
| 08 | B | 08/24/2023 | A6D | 0.0013 U | 0.001 UJ | 0.120 | 0.00053 U | 0.0005 UJ | 0.0011 U | 0.00360 | 0.19 J | 0.0005 UJ | 0.0140 | 0.000079 U | 0.0025 U | 0.572 | 0.00098 U | 0.00057 U |
| 08D | B | 03/01/2023 | A6 | 0.0004 U | 0.0004 U | 0.139 | 0.0002 U | 0.0007 J | 0.00520 | 0.00520 | 0.100 | 0.0007 J | 0.0127 | 0.00006 U | 0.0011 J | 1.37 | 0.0006 U | 0.001 U |
| 08D | B | 05/31/2023 | A6R | 0.0004 U | 0.0087 U | 0.108 | 0.0003 J | 0.0005 U | 0.0028 U | 0.00460 | 0.08 J | 0.004 U | 0.0114 J+ | 0.00006 U | 0.0037 U | 2.10 | 0.0006 U | 0.001 U |
| 08D | B | 08/24/2023 | A6D | 0.0013 U | 0.00110 J+ | 0.120 | 0.00053 U | 0.0005 UJ | 0.0011 U | 0.00320 | 0.19 U | 0.0005 UJ | 0.0140 | 0.000079 U | 0.0025 U | 0.573 | 0.00098 U | 0.00057 U |
| 16 | B | 02/28/2023 | A6 | 0.0004 U | 0.0004 U | 0.117 | 0.0002 U | 0.0002 U | 0.0007 U | 0.0001 J | 0.240 | 0.0006 U | 0.00770 | 0.00007 U | 0.0100 | 0.956 | 0.0006 U | 0.001 U |
| 16 | B | 06/01/2023 | A6R | 0.0004 U | 0.0087 U | 0.0617 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0001 U | 0.230 | 0.004 U | 0.0025 J | 0.00006 U | 0.0123 | 0.0656 | 0.0006 U | 0.001 U |
| 16 | B | 08/28/2023 | A6D | 0.0013 U | 0.001 UJ | 0.0770 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.31 J | 0.00019 U | 0.00760 | 0.0002 UJ | 0.0100 | 0.522 | 0.00098 U | 0.00057 U |
| 17 | B | 02/28/2023 | A6 | 0.0004 U | 0.0004 U | 0.190 | 0.0002 U | 0.0002 U | 0.0007 U | 0.0001 U | 0.130 | 0.0006 U | 0.00590 | 0.00007 U | 0.00180 | 0.0457 | 0.0006 U | 0.001 U |
| 17 | B | 06/01/2023 | A6R | 0.0004 U | 0.0087 U | 0.0950 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0001 U | 0.130 | 0.004 U | 0.0034 J | 0.00006 U | 0.0037 U | 0.597 | 0.0006 U | 0.001 U |
| 17 | B | 08/28/2023 | A6D | 0.0013 U | 0.00057 J | 0.0720 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.36 J | 0.00019 U | 0.00640 | 0.0002 UJ | 0.00710 | 0.574 | 0.00098 U | 0.00057 U |
| 12 | C | 03/01/2023 | A6 | 0.0007 J | 0.0004 J | 0.0737 | 0.0002 U | 0.0002 U | 0.0008 J | 0.0001 U | 0.230 | 0.0006 U | 0.00960 | 0.00007 U | 0.0254 | 0.370 | 0.0009 J | 0.001 U |
| 12 | C | 05/31/2023 | A6R | 0.0004 U | 0.0087 U | 0.0570 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0001 U | 0.180 | 0.004 U | 0.0019 U | 0.00006 U | 0.0151 | 2.36 | 0.0009 J | 0.001 U |
| 12 | C | 08/23/2023 | A6D | 0.0013 U | 0.00051 J | 0.0600 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.3 J | 0.00019 U | 0.00930 | 0.000079 U | 0.0170 | 0.743 | 0.00098 U | 0.00057 U |
| 13 | C | 03/01/2023 | A6 | 0.0007 J | 0.0008 J | 0.0654 | 0.0002 U | 0.0002 U | 0.0009 J | 0.0006 J | 0.220 | 0.0009 J | 0.0152 | 0.00007 U | 0.0254 | 0.129 | 0.00340 | 0.001 U |
| 13 | C | 05/31/2023 | A6R | 0.00130 | 0.0087 U | 0.0426 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0001 J | 0.160 | 0.004 U | 0.0188 J+ | 0.00006 U | 0.0103 | 1.60 | 0.0009 J | 0.001 U |
| 13 | C | 08/23/2023 | A6D | 0.0013 U | 0.00067 J | 0.0440 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.27 J | 0.00019 U | 0.0110 | 0.000079 U | 0.0130 | 0.643 | 0.00098 U | 0.00057 U |
| 46 | C | 02/28/2023 | A6 | 0.0004 U | 0.0004 J | 0.0909 | 0.0002 U | 0.0002 U | 0.0009 J | 0.0004 J | 0.240 | 0.0006 U | 0.00840 | 0.00006 U | 0.0312 | 0.187 | 0.0008 J | 0.001 U |
| 46 | C | 05/31/2023 | A6R | 0.0004 U | 0.0087 U | 0.0624 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0001 J | 0.170 | 0.004 U | 0.0019 U | 0.00006 U | 0.0138 | 2.20 | 0.0007 J | 0.001 U |
| 46 | C | 08/23/2023 | A6D | 0.0013 U | 0.00051 J | 0.0650 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.31 J | 0.00019 U | 0.00870 | 0.000079 U | 0.0190 | 0.563 | 0.00098 U | 0.00057 U |
| 47 | C | 03/01/2023 | A6 | 0.0004 U | 0.0004 U | 0.126 | 0.0002 U | 0.0002 U | 0.0007 U | 0.0005 J | 0.290 | 0.0006 U | 0.00940 | 0.00006 U | 0.0359 | 0.671 | 0.00100 J | 0.001 U |
| 47 | C | 05/31/2023 | A6R | 0.0009 J | 0.0087 U | 0.0802 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0005 J | 0.270 | 0.004 U | 0.0101 J+ | 0.00006 U | 0.0302 | 1.73 | 0.00140 | 0.001 U |
| 47 | C | 08/23/2023 | A6D | 0.0013 U | 0.00048 J | 0.0890 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.35 J | 0.00019 U | 0.0110 | 0.000079 U | 0.0260 | 0.578 | 0.00098 U | 0.00057 U |

**TABLE 3**
**ANALYTICAL RESULTS - APPENDIX IV PARAMETERS**
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52 | C | 02/28/2023 | A6 | 0.0004 U | 0.0004 U | 0.104 | 0.0002 U | 0.0002 U | 0.0007 U | 0.0003 J | 0.280 | 0.0006 U | 0.00640 | 0.00006 U | 0.0140 | 0.259 | 0.00150 | 0.001 U |
| 52 | C | 06/01/2023 | A6R | 0.0004 U | 0.0087 U | 0.0731 | 0.0002 J | 0.0005 U | 0.0028 U | 0.0003 J | 0.250 | 0.004 U | 0.002 J | 0.00006 U | 0.0145 | 1.37 | 0.0008 J | 0.001 U |
| 52 | C | 08/24/2023 | A6D | 0.0013 U | 0.00053 J | 0.0910 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.34 J | 0.00019 U | 0.00960 | 0.0002 UJ | 0.0130 | 0.616 | 0.00098 U | 0.00057 U |
| 54 | C | 03/01/2023 | A6 | 0.0004 U | 0.0004 U | 0.0761 | 0.0002 U | 0.0002 U | 0.0007 U | 0.0006 J | 0.300 | 0.0006 U | 0.0158 | 0.00006 U | 0.0366 | 0.00730 | 0.00150 | 0.001 U |
| 54 | C | 05/31/2023 | A6R | 0.0004 U | 0.0087 U | 0.0537 | 0.0002 U | 0.0005 U | 0.0028 U | 0.0002 J | 0.200 | 0.004 U | 0.0108 J+ | 0.00006 U | 0.0223 | 0.504 | 0.00140 | 0.001 U |
| 54 | C | 08/23/2023 | A6D | 0.0013 U | 0.00059 J | 0.0530 | 0.00053 U | 0.00017 U | 0.0011 U | 0.0004 U | 0.33 J | 0.00019 U | 0.0110 | 0.000079 U | 0.0300 | 0.649 | 0.00098 U | 0.00057 U |

**Notes:**
ID = identification
mg/L = milligrams per liter
pCi/L = picoCuries per liter
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased 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

*Generated 2024-01-14 01:56:28.704332 by banoffra*

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

| Parameter | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Background Value (LPL/UPL) |
|---|---|---|---|---|---|
| Boron (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UPL | 0.153 |
| Calcium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UPL | 280 |
| Chloride (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UPL | 396 |
| Fluoride (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 58 | Non-parametric UPL | 0.120 |
| pH (field) (SU) | 12/08/2015 - 06/09/2017 | 24 | 0 | Non-parametric LPL/UPL | 6.6/7.5 |
| Sulfate (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UPL | 200 |
| Total Dissolved Solids (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UPL | 1520 |

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

*Generated 2024-01-14 01:43:15.983207 by banoffra*

**TABLE 5**
**GROUNDWATER PROTECTION STANDARDS**
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, 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) | 12/08/2015 - 06/09/2017 | 24 | 100 | All ND - Last Reporting Limit | 0.001 | 0.006 | 0.006 | MCL/HBL |
| Arsenic (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 100 | All ND - Last Reporting Limit | 0.001 | 0.010 | 0.010 | MCL/HBL |
| Barium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UTL | 0.212 | 2.0 | 2.0 | MCL/HBL |
| Beryllium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 100 | All ND - Last Reporting Limit | 0.001 | 0.004 | 0.004 | MCL/HBL |
| Cadmium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 88 | Non-parametric UTL | 0.00230 | 0.005 | 0.005 | MCL/HBL |
| Chromium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 96 | Non-parametric UTL | 0.00100 | 0.1 | 0.1 | MCL/HBL |
| Cobalt (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 33 | Non-parametric UTL | 0.0385 | 0.006 | 0.0385 | Background |
| Fluoride (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 58 | Non-parametric UTL | 0.120 | 4.0 | 4.0 | MCL/HBL |
| Lead (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 96 | Non-parametric UTL | 0.00150 | 0.015 | 0.015 | MCL/HBL |
| Lithium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UTL (log-transformed) | 0.0187 | 0.04 | 0.04 | MCL/HBL |
| Mercury (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 100 | All ND - Last Reporting Limit | 0.0002 | 0.002 | 0.002 | MCL/HBL |
| Molybdenum (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 29 | Non-parametric UTL | 0.00170 | 0.1 | 0.1 | MCL/HBL |
| Radium 226 + Radium 228 (pCi/L) | 12/08/2015 - 06/09/2017 | 24 | 0 | Parametric UTL | 1.51 | 5 | 5 | MCL/HBL |
| Selenium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 79 | Non-parametric UTL | 0.00140 | 0.05 | 0.05 | MCL/HBL |
| Thallium (mg/L) | 12/08/2015 - 06/09/2017 | 24 | 100 | All ND - Last Reporting Limit | 0.001 | 0.002 | 0.002 | MCL/HBL |

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

*Generated 2024-01-14 01:56:36.839984 by banoffra*

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

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | UA | A6 | Antimony, total | mg/L | 12/09/2015 - 03/01/2023 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Antimony, total | mg/L | 12/09/2015 - 05/31/2023 | 17 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Arsenic, total | mg/L | 12/09/2015 - 03/01/2023 | 21 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Arsenic, total | mg/L | 12/09/2015 - 05/31/2023 | 22 | 100 | All ND - Last | 0.01 | 0.010 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Barium, total | mg/L | 12/09/2015 - 03/01/2023 | 23 | 0 | CI around mean | 0.0507 | 2.0 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Barium, total | mg/L | 12/09/2015 - 05/31/2023 | 24 | 0 | CI around mean | 0.051 | 2.0 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Beryllium, total | mg/L | 12/09/2015 - 03/01/2023 | 15 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Beryllium, total | mg/L | 12/09/2015 - 05/31/2023 | 16 | 100 | All ND - Last | 0.0005 | 0.004 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Cadmium, total | mg/L | 12/09/2015 - 03/01/2023 | 25 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Cadmium, total | mg/L | 12/09/2015 - 05/31/2023 | 26 | 100 | All ND - Last | 0.002 | 0.005 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Chromium, total | mg/L | 12/09/2015 - 03/01/2023 | 21 | 95 | CB around T-S line | 0.00142 | 0.1 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Chromium, total | mg/L | 12/09/2015 - 05/31/2023 | 22 | 95 | CB around T-S line | 0.00121 | 0.1 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Cobalt, total | mg/L | 12/09/2015 - 03/01/2023 | 19 | 100 | All ND - Last | 0.001 | 0.0385 | Background | No Exceedance |
| 12 | UA | A6R | Cobalt, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 100 | All ND - Last | 0.001 | 0.0385 | Background | No Exceedance |
| 12 | UA | A6 | Fluoride, total | mg/L | 12/09/2015 - 03/01/2023 | 24 | 0 | CI around mean | 0.239 | 4.0 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Fluoride, total | mg/L | 12/09/2015 - 05/31/2023 | 25 | 0 | CI around mean | 0.235 | 4.0 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Lead, total | mg/L | 12/09/2015 - 03/01/2023 | 21 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Lead, total | mg/L | 12/09/2015 - 05/31/2023 | 22 | 100 | All ND - Last | 0.0075 | 0.015 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Lithium, total | mg/L | 12/09/2015 - 03/01/2023 | 20 | 0 | CB around linear reg | 0.00818 | 0.04 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Lithium, total | mg/L | 12/09/2015 - 05/31/2023 | 21 | 4.8 | CB around linear reg | 0.00603 | 0.04 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Mercury, total | mg/L | 12/09/2015 - 03/01/2023 | 18 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Mercury, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Molybdenum, total | mg/L | 12/09/2015 - 03/01/2023 | 23 | 0 | CB around linear reg | 0.0132 | 0.1 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Molybdenum, total | mg/L | 12/09/2015 - 05/31/2023 | 24 | 0 | CB around linear reg | 0.0123 | 0.1 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 03/01/2023 | 19 | 0 | CI around mean | 0.406 | 5 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CI around geomean | 0.317 | 5 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Selenium, total | mg/L | 12/09/2015 - 03/01/2023 | 23 | 35 | CB around T-S line | 0.000694 | 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
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | UA | A6R | Selenium, total | mg/L | 12/09/2015 - 05/31/2023 | 24 | 38 | CB around T-S line | 0.000721 | 0.05 | MCL/HBL | No Exceedance |
| 12 | UA | A6 | Thallium, total | mg/L | 12/09/2015 - 03/01/2023 | 15 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 12 | UA | A6R | Thallium, total | mg/L | 12/09/2015 - 05/31/2023 | 16 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Antimony, total | mg/L | 12/09/2015 - 03/01/2023 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Antimony, total | mg/L | 12/09/2015 - 05/31/2023 | 17 | 94 | CI around median | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Arsenic, total | mg/L | 12/09/2015 - 03/01/2023 | 21 | 95 | CI around median | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Arsenic, total | mg/L | 12/09/2015 - 05/31/2023 | 22 | 95 | CI around median | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Barium, total | mg/L | 12/09/2015 - 03/01/2023 | 23 | 0 | CI around mean | 0.0426 | 2.0 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Barium, total | mg/L | 12/09/2015 - 05/31/2023 | 24 | 0 | CI around mean | 0.0426 | 2.0 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Beryllium, total | mg/L | 12/09/2015 - 03/01/2023 | 15 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Beryllium, total | mg/L | 12/09/2015 - 05/31/2023 | 16 | 100 | All ND - Last | 0.0005 | 0.004 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Cadmium, total | mg/L | 12/09/2015 - 03/01/2023 | 25 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Cadmium, total | mg/L | 12/09/2015 - 05/31/2023 | 26 | 100 | All ND - Last | 0.002 | 0.005 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Chromium, total | mg/L | 12/09/2015 - 03/01/2023 | 21 | 81 | CB around T-S line | 0.00144 | 0.1 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Chromium, total | mg/L | 12/09/2015 - 05/31/2023 | 22 | 82 | CB around T-S line | 0.00121 | 0.1 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Cobalt, total | mg/L | 12/09/2015 - 03/01/2023 | 19 | 100 | All ND - Last | 0.001 | 0.0385 | Background | No Exceedance |
| 13 | UA | A6R | Cobalt, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 100 | All ND - Last | 0.001 | 0.0385 | Background | No Exceedance |
| 13 | UA | A6 | Fluoride, total | mg/L | 12/09/2015 - 03/01/2023 | 24 | 0 | CI around mean | 0.204 | 4.0 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Fluoride, total | mg/L | 12/09/2015 - 05/31/2023 | 25 | 0 | CI around mean | 0.202 | 4.0 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Lead, total | mg/L | 12/09/2015 - 03/01/2023 | 21 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Lead, total | mg/L | 12/09/2015 - 05/31/2023 | 22 | 100 | All ND - Last | 0.0075 | 0.015 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Lithium, total | mg/L | 12/09/2015 - 03/01/2023 | 20 | 0 | CI around mean | 0.0175 | 0.04 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Lithium, total | mg/L | 12/09/2015 - 05/31/2023 | 21 | 0 | CI around mean | 0.0176 | 0.04 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Mercury, total | mg/L | 12/09/2015 - 03/01/2023 | 18 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Mercury, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Molybdenum, total | mg/L | 12/09/2015 - 03/01/2023 | 23 | 0 | CI around mean | 0.0162 | 0.1 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Molybdenum, total | mg/L | 12/09/2015 - 05/31/2023 | 24 | 0 | CI around mean | 0.0158 | 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
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | UA | A6 | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 03/01/2023 | 19 | 0 | CI around mean | 0.439 | 5 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CI around mean | 0.466 | 5 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Selenium, total | mg/L | 12/09/2015 - 03/01/2023 | 23 | 13 | CI around mean | 0.00163 | 0.05 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Selenium, total | mg/L | 12/09/2015 - 05/31/2023 | 24 | 17 | CI around mean | 0.00135 | 0.05 | MCL/HBL | No Exceedance |
| 13 | UA | A6 | Thallium, total | mg/L | 12/09/2015 - 03/01/2023 | 15 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 13 | UA | A6R | Thallium, total | mg/L | 12/09/2015 - 05/31/2023 | 16 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Antimony, total | mg/L | 12/09/2015 - 02/28/2023 | 15 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Antimony, total | mg/L | 12/09/2015 - 05/31/2023 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Arsenic, total | mg/L | 12/09/2015 - 02/28/2023 | 17 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Arsenic, total | mg/L | 12/09/2015 - 05/31/2023 | 18 | 100 | All ND - Last | 0.01 | 0.010 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Barium, total | mg/L | 12/09/2015 - 02/28/2023 | 19 | 0 | CB around linear reg | 0.067 | 2.0 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Barium, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CB around linear reg | 0.0649 | 2.0 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Beryllium, total | mg/L | 12/09/2015 - 02/28/2023 | 14 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Beryllium, total | mg/L | 12/09/2015 - 05/31/2023 | 15 | 100 | All ND - Last | 0.0005 | 0.004 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Cadmium, total | mg/L | 12/09/2015 - 02/28/2023 | 18 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Cadmium, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 100 | All ND - Last | 0.002 | 0.005 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Chromium, total | mg/L | 12/09/2015 - 02/28/2023 | 17 | 88 | CB around T-S line | 0.001 | 0.1 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Chromium, total | mg/L | 12/09/2015 - 05/31/2023 | 18 | 89 | CB around T-S line | 0.00133 | 0.1 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Cobalt, total | mg/L | 12/09/2015 - 02/28/2023 | 18 | 100 | All ND - Last | 0.001 | 0.0385 | Background | No Exceedance |
| 46 | UA | A6R | Cobalt, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 100 | All ND - Last | 0.001 | 0.0385 | Background | No Exceedance |
| 46 | UA | A6 | Fluoride, total | mg/L | 12/09/2015 - 02/28/2023 | 20 | 0 | CI around mean | 0.246 | 4.0 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Fluoride, total | mg/L | 12/09/2015 - 05/31/2023 | 21 | 0 | CI around mean | 0.239 | 4.0 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Lead, total | mg/L | 12/09/2015 - 02/28/2023 | 17 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Lead, total | mg/L | 12/09/2015 - 05/31/2023 | 18 | 100 | All ND - Last | 0.0075 | 0.015 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Lithium, total | mg/L | 12/09/2015 - 02/28/2023 | 19 | 0 | CI around mean | 0.00963 | 0.04 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Lithium, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 5.0 | CI around median | 0.009 | 0.04 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Mercury, total | mg/L | 12/09/2015 - 02/28/2023 | 14 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |

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

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 46 | UA | A6R | Mercury, total | mg/L | 12/09/2015 - 05/31/2023 | 15 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Molybdenum, total | mg/L | 12/09/2015 - 02/28/2023 | 19 | 0 | CB around T-S line | 0.00923 | 0.1 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Molybdenum, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CB around T-S line | 0.0102 | 0.1 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 02/28/2023 | 19 | 0 | CI around geomean | 0.264 | 5 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CI around geomean | 0.285 | 5 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Selenium, total | mg/L | 12/09/2015 - 02/28/2023 | 19 | 53 | CI around median | 0.001 | 0.05 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Selenium, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 55 | CI around median | 0.001 | 0.05 | MCL/HBL | No Exceedance |
| 46 | UA | A6 | Thallium, total | mg/L | 12/09/2015 - 02/28/2023 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 46 | UA | A6R | Thallium, total | mg/L | 12/09/2015 - 05/31/2023 | 15 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Antimony, total | mg/L | 12/09/2015 - 03/01/2023 | 15 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Antimony, total | mg/L | 12/09/2015 - 05/31/2023 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Arsenic, total | mg/L | 12/09/2015 - 03/01/2023 | 17 | 94 | Most recent sample | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Arsenic, total | mg/L | 12/09/2015 - 05/31/2023 | 18 | 94 | CI around median | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Barium, total | mg/L | 12/09/2015 - 03/01/2023 | 19 | 0 | CB around linear reg | 0.0853 | 2.0 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Barium, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CI around mean | 0.0771 | 2.0 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Beryllium, total | mg/L | 12/09/2015 - 03/01/2023 | 14 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Beryllium, total | mg/L | 12/09/2015 - 05/31/2023 | 15 | 100 | All ND - Last | 0.0005 | 0.004 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Cadmium, total | mg/L | 12/09/2015 - 03/01/2023 | 18 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Cadmium, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 100 | All ND - Last | 0.002 | 0.005 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Chromium, total | mg/L | 12/09/2015 - 03/01/2023 | 17 | 94 | CB around T-S line | 0.001 | 0.1 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Chromium, total | mg/L | 12/09/2015 - 05/31/2023 | 18 | 94 | CB around T-S line | 0.001 | 0.1 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Cobalt, total | mg/L | 12/09/2015 - 03/01/2023 | 18 | 78 | CI around median | 0.001 | 0.0385 | Background | No Exceedance |
| 47 | UA | A6R | Cobalt, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 79 | CI around median | 0.001 | 0.0385 | Background | No Exceedance |
| 47 | UA | A6 | Fluoride, total | mg/L | 12/09/2015 - 03/01/2023 | 20 | 0 | CB around linear reg | 0.236 | 4.0 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Fluoride, total | mg/L | 12/09/2015 - 05/31/2023 | 21 | 0 | CB around linear reg | 0.236 | 4.0 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Lead, total | mg/L | 12/09/2015 - 03/01/2023 | 17 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Lead, total | mg/L | 12/09/2015 - 05/31/2023 | 18 | 100 | All ND - Last | 0.0075 | 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
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47 | UA | A6 | Lithium, total | mg/L | 12/09/2015 - 03/01/2023 | 19 | 0 | CI around mean | 0.0085 | 0.04 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Lithium, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CI around mean | 0.00859 | 0.04 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Mercury, total | mg/L | 12/09/2015 - 03/01/2023 | 14 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Mercury, total | mg/L | 12/09/2015 - 05/31/2023 | 15 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Molybdenum, total | mg/L | 12/09/2015 - 03/01/2023 | 19 | 0 | CB around linear reg | 0.0115 | 0.1 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Molybdenum, total | mg/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CB around linear reg | 0.0127 | 0.1 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 03/01/2023 | 19 | 0 | CI around mean | 0.321 | 5 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Radium 226 + Radium 228, total | pCi/L | 12/09/2015 - 05/31/2023 | 20 | 0 | CI around mean | 0.346 | 5 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Selenium, total | mg/L | 12/09/2015 - 03/01/2023 | 18 | 94 | Most recent sample | 0.001 | 0.05 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Selenium, total | mg/L | 12/09/2015 - 05/31/2023 | 19 | 89 | CI around median | 0.001 | 0.05 | MCL/HBL | No Exceedance |
| 47 | UA | A6 | Thallium, total | mg/L | 12/09/2015 - 03/01/2023 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 47 | UA | A6R | Thallium, total | mg/L | 12/09/2015 - 05/31/2023 | 15 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Antimony, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Antimony, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Arsenic, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Arsenic, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.01 | 0.010 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Barium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 0 | CI around mean | 0.0678 | 2.0 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Barium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 0 | CI around mean | 0.0685 | 2.0 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Beryllium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Beryllium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.0005 | 0.004 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Cadmium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Cadmium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.002 | 0.005 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Chromium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Chromium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.005 | 0.1 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Cobalt, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 89 | Most recent sample | 0.001 | 0.0385 | Background | No Exceedance |
| 52 | UA | A6R | Cobalt, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 90 | Most recent sample | 0.001 | 0.0385 | Background | No Exceedance |
| 52 | UA | A6 | Fluoride, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 0 | CI around mean | 0.283 | 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
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52 | UA | A6R | Fluoride, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 0 | CI around mean | 0.275 | 4.0 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Lead, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Lead, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.0075 | 0.015 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Lithium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 0 | CI around mean | 0.00592 | 0.04 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Lithium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 10 | CI around mean | 0.005 | 0.04 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Mercury, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Mercury, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Molybdenum, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 0 | CI around mean | 0.00946 | 0.1 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Molybdenum, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 0 | CI around mean | 0.00991 | 0.1 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Radium 226 + Radium 228, total | pCi/L | 02/24/2021 - 02/28/2023 | 9 | 0 | CI around mean | 0.241 | 5 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Radium 226 + Radium 228, total | pCi/L | 02/24/2021 - 06/01/2023 | 10 | 0 | CI around mean | 0.326 | 5 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Selenium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 89 | CI around median | 0.001 | 0.05 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Selenium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 90 | CI around median | 0.001 | 0.05 | MCL/HBL | No Exceedance |
| 52 | UA | A6 | Thallium, total | mg/L | 02/24/2021 - 02/28/2023 | 9 | 89 | CI around median | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 52 | UA | A6R | Thallium, total | mg/L | 02/24/2021 - 06/01/2023 | 10 | 90 | CI around median | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Antimony, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Antimony, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Arsenic, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Arsenic, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.01 | 0.010 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Barium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 0 | CI around mean | 0.057 | 2.0 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Barium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 0 | CI around mean | 0.0562 | 2.0 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Beryllium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Beryllium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.0005 | 0.004 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Cadmium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Cadmium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.002 | 0.005 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Chromium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Chromium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.005 | 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
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

| Well ID | HSU | Event ID | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | SSL Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54 | UA | A6 | Cobalt, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 78 | CI around median | 0.001 | 0.0385 | Background | No Exceedance |
| 54 | UA | A6R | Cobalt, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 80 | CI around median | 0.001 | 0.0385 | Background | No Exceedance |
| 54 | UA | A6 | Fluoride, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 0 | CB around linear reg | 0.195 | 4.0 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Fluoride, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 0 | CB around linear reg | 0.157 | 4.0 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Lead, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Lead, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.0075 | 0.015 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Lithium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 0 | CI around mean | 0.0141 | 0.04 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Lithium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 0 | CI around mean | 0.0133 | 0.04 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Mercury, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Mercury, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Molybdenum, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 0 | CI around mean | 0.0184 | 0.1 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Molybdenum, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 0 | CI around mean | 0.019 | 0.1 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Radium 226 + Radium 228, total | pCi/L | 02/24/2021 - 03/01/2023 | 9 | 0 | CI around geomean | 0.0514 | 5 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Radium 226 + Radium 228, total | pCi/L | 02/24/2021 - 05/31/2023 | 10 | 0 | CI around geomean | 0.0653 | 5 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Selenium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 44 | CI around mean | 0.000973 | 0.05 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Selenium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 40 | CI around mean | 0.00102 | 0.05 | MCL/HBL | No Exceedance |
| 54 | UA | A6 | Thallium, total | mg/L | 02/24/2021 - 03/01/2023 | 9 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL | No Exceedance |
| 54 | UA | A6R | Thallium, total | mg/L | 02/24/2021 - 05/31/2023 | 10 | 100 | All ND - Last | 0.002 | 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
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

**Notes:**
Statistically Significant Level (SSL) Type:

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

GWPS = Groundwater Protection Standard
GWPS Source:

Background = background concentration

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

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

*Generated 2024-01-14 01:56:50.067414 by banoffra*

# FIGURES

COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
MONITORING WELL
STAFF GAUGE, CCR UNIT
STAFF GAUGE, RIVER
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
LIMITS OF FINAL COVER
PROPERTY BOUNDARY

0 175 350
Feet

# MONITORING WELL LOCATION MAP

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**
**EAST ASH POND**
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

## FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\222285\MXD\GMP\Hennepin\EAP_803\Figure 2-1. Expanded Part 257 GW Monitoring Well Network.mxd

PROJECT: 169000XXXX | DATED: 3/1/2023 | DESIGNER: galarnmc

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

**NOTES:**
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT

0 175 350
Feet

# POTENTIOMETRIC SURFACE MAP FEBRUARY 28 AND MARCH 1, 2023

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND**
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

## FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2023\Hennepin\EAP_803\HEN 803 EAP Pot Surface 20230228.mxd

PROJECT: 169000XXXX | DATED: 5/12/2023 | DESIGNER: GALARNMC

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

**NOTES:**
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT

0 175 350
Feet

# POTENTIOMETRIC SURFACE MAP MAY 30, 2023

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND**
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

## FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\2202285\MXD\GW_Contours\Round_2023\Hennepin\EAP_803\HEN 803 EAP Pot Surface 20230530.mxd

PROJECT: 169000XXXX | DATED: 9/27/2023 | DESIGNER: GALARNMC

COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
MONITORING WELL
PORE WATER WELL
STAFF GAGE, CCR UNIT
GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION CONTOUR
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
LIMITS OF FINAL COVER
PROPERTY BOUNDARY

**NOTES:**
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT

0 175 350
Feet

# POTENTIOMETRIC SURFACE MAP AUGUST 21, 2023

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND**
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

## FIGURE 4

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\2202285\MXD\GW_Contours\Round_2023\HennepinEAP_803\HEN 803 EAP Pot Surface 20230821.mxd

PROJECT: 169000XXXX | DATED: 11/20/2023 | DESIGNER: GALARNMC

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

**NOTES:**
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT

0 175 350
Feet

# POTENTIOMETRIC SURFACE MAP NOVEMBER 11, 2023

**2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**
**EAST ASH POND**
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

## FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\221228\MXD\GW_Contours\Round_2023\Hennepin\EAP_803\HEN 803 EAP Pot Surface 20231113.mxd

PROJECT: 169000XXXX | DATED: 12/7/2023 | DESIGNER: GALARNMC

# APPENDICES

# APPENDIX A
# LABORATORY REPORTS AND FIELD DATA SHEETS

April 14, 2023

Eric Bauer
Ramboll
234 W. Florida St.
Milwaukee, WI 53204
TEL: (414) 837-3614
FAX: (414) 837-3608

| | |
|---|---|
| Illinois | 100226 |
| Kansas | E-10374 |
| Louisiana | 05002 |
| Louisiana | 05003 |
| Oklahoma | 9978 |

**RE:** HEN-23Q1 **WorkOrder:** 23020845

Dear Eric Bauer:

TEKLAB, INC received 51 samples on 3/2/2023 8:00:00 AM 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



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

**This reporting package includes the following:**


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| Chain of Custody | Appended |

# Definitions



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-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 ) |

Teklab, Inc.
Environmental Laboratory

# Definitions



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-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:** HEN-23Q1

**Work Order:** 23020845
**Report Date:** 14-Apr-23

**Cooler Receipt Temp:** 3.2 °C

An employee of Teklab, Inc. collected the sample(s).

55 was measured on 3/1/23 at 1008 per field file. 05DR was collected at 1237 rather than 1257 per field file. EAH 3/21/23

HEN_257_803 data is included in this report. EAH 4/14/23

## 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:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2024 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 4/30/2023 | Collinsville |
| Louisiana | LDEQ | 05002 | NELAP | 6/30/2023 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2023 | Collinsville |
| Oklahoma | ODEQ | 9978 | NELAP | 8/31/2023 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2024 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | 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:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-002 **Client Sample ID:** 07

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 16:16

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **68.85** | ft | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **6.96** | | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **161.2** | mV | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1467** | µS/cm | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **11.2** | °C | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **2.69** | mg/L | 1 | 03/01/2023 16:16 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **385** | mg/L | 1 | 03/03/2023 14:45 | R325591 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/03/2023 14:45 | R325591 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **638** | mg/L | 1 | 03/02/2023 11:20 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **76** | mg/L | 5 | 03/07/2023 15:09 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.12** | mg/L | 1 | 03/02/2023 12:46 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **105** | mg/L | 5 | 03/07/2023 15:09 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **146** | mg/L | 1 | 03/03/2023 16:32 | 203466 |
| Magnesium | NELAP | 0.050 | | **48.8** | mg/L | 1 | 03/03/2023 16:32 | 203466 |
| Potassium | NELAP | 0.100 | | **2.85** | mg/L | 1 | 03/03/2023 16:32 | 203466 |
| Sodium | NELAP | 0.050 | | **48.7** | mg/L | 1 | 03/03/2023 16:32 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **1.7** | µg/L | 5 | 03/06/2023 10:27 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Barium | NELAP | 1.0 | | **154** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 10:27 | 203466 |
| Boron | NELAP | 25.0 | | **65.8** | µg/L | 5 | 03/06/2023 10:27 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Chromium | NELAP | 1.5 | J | **0.8** | µg/L | 5 | 03/06/2023 10:27 | 203466 |
| Cobalt | NELAP | 1.0 | | **46.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Lithium | * | 3.0 | | **8.5** | µg/L | 5 | 03/06/2023 10:27 | 203466 |
| Molybdenum | NELAP | 1.5 | J | **1.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 13:51 | 203466 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-002
**Client Sample ID:** 07
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 16:16

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 19:54 | 203469 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-003 **Client Sample ID:** 08

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 15:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **54.20** | ft | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **6.67** | | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **161** | mV | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **2438** | µS/cm | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **13.1** | °C | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.52** | mg/L | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **518** | mg/L | 1 | 03/03/2023 14:59 | R325591 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/03/2023 14:59 | R325591 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **1020** | mg/L | 1 | 03/02/2023 11:23 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **129** | mg/L | 5 | 03/07/2023 15:14 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.10** | mg/L | 1 | 03/02/2023 12:49 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 20 | | **227** | mg/L | 20 | 03/08/2023 11:02 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **176** | mg/L | 1 | 03/03/2023 16:51 | 203466 |
| Magnesium | NELAP | 0.050 | | **44.5** | mg/L | 1 | 03/03/2023 16:51 | 203466 |
| Potassium | NELAP | 0.100 | | **7.66** | mg/L | 1 | 03/06/2023 13:22 | 203466 |
| Sodium | NELAP | 0.050 | | **186** | mg/L | 1 | 03/03/2023 16:51 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | J | **0.8** | µg/L | 5 | 03/06/2023 11:18 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Barium | NELAP | 1.0 | | **116** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 11:18 | 203466 |
| Boron | NELAP | 25.0 | | **118** | µg/L | 5 | 03/16/2023 15:23 | 203466 |
| Cadmium | NELAP | 1.0 | J | **0.5** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 11:18 | 203466 |
| Cobalt | NELAP | 1.0 | | **7.9** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Lithium | * | 3.0 | | **12.3** | µg/L | 5 | 03/06/2023 11:18 | 203466 |
| Molybdenum | NELAP | 1.5 | | **1.8** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:23 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 14:23 | 203466 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-003
**Client Sample ID:** 08
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 15:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 20:08 | 203469 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-005 **Client Sample ID:** 12

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 10:46

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **51.32** | ft | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.29** | | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **111.9** | mV | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1135** | µS/cm | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **17.8** | °C | 1 | 03/01/2023 10:46 | R325999 |
| Temperature | * | 0 | | **64.04** | °F | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **1.24** | mg/L | 1 | 03/01/2023 10:46 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **243** | mg/L | 1 | 03/06/2023 9:45 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 9:45 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **488** | mg/L | 1 | 03/02/2023 11:24 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **84** | mg/L | 5 | 03/07/2023 16:05 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.23** | mg/L | 1 | 03/02/2023 12:52 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **92** | mg/L | 5 | 03/07/2023 16:05 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **85.1** | mg/L | 1 | 03/03/2023 16:55 | 203466 |
| Magnesium | NELAP | 0.050 | | **30.4** | mg/L | 1 | 03/03/2023 16:55 | 203466 |
| Potassium | NELAP | 0.100 | | **4.17** | mg/L | 1 | 03/06/2023 13:26 | 203466 |
| Sodium | NELAP | 0.050 | | **63.2** | mg/L | 1 | 03/03/2023 16:55 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | J | **0.7** | µg/L | 5 | 03/06/2023 11:25 | 203466 |
| Arsenic | NELAP | 1.0 | J | **0.4** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Barium | NELAP | 1.0 | | **73.7** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 11:25 | 203466 |
| Boron | NELAP | 25.0 | | **192** | µg/L | 5 | 03/06/2023 11:25 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Chromium | NELAP | 1.5 | J | **0.8** | µg/L | 5 | 03/06/2023 11:25 | 203466 |
| Cobalt | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Lithium | * | 3.0 | | **9.6** | µg/L | 5 | 03/06/2023 11:25 | 203466 |
| Molybdenum | NELAP | 1.5 | | **25.4** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Selenium | NELAP | 1.0 | J | **0.9** | µg/L | 5 | 03/03/2023 14:29 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 14:29 | 203466 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-005
**Client Sample ID:** 12
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 10:46

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 20:14 | 203469 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-006 **Client Sample ID:** 13

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 10:28

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **51.30** | ft | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.32** | | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **1.81** | NTU | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **26.4** | mV | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1193** | µS/cm | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **17.6** | °C | 1 | 03/01/2023 10:28 | R325999 |
| Temperature | * | 0 | | **63.7** | °F | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.56** | mg/L | 1 | 03/01/2023 10:28 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **233** | mg/L | 1 | 03/06/2023 9:58 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 9:58 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **498** | mg/L | 1 | 03/02/2023 11:25 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **122** | mg/L | 5 | 03/07/2023 16:13 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.22** | mg/L | 1 | 03/02/2023 12:54 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **94** | mg/L | 5 | 03/07/2023 16:13 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **87.1** | mg/L | 1 | 03/03/2023 16:58 | 203466 |
| Magnesium | NELAP | 0.050 | | **32.4** | mg/L | 1 | 03/03/2023 16:58 | 203466 |
| Potassium | NELAP | 0.100 | | **4.78** | mg/L | 1 | 03/06/2023 13:30 | 203466 |
| Sodium | NELAP | 0.050 | | **66.9** | mg/L | 1 | 03/03/2023 16:58 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | J | **0.7** | µg/L | 5 | 03/06/2023 11:31 | 203466 |
| Arsenic | NELAP | 1.0 | J | **0.8** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Barium | NELAP | 1.0 | | **65.4** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 11:31 | 203466 |
| Boron | NELAP | 25.0 | | **942** | µg/L | 5 | 03/06/2023 11:31 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Chromium | NELAP | 1.5 | J | **0.9** | µg/L | 5 | 03/06/2023 11:31 | 203466 |
| Cobalt | NELAP | 1.0 | J | **0.6** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Lead | NELAP | 1.0 | J | **0.9** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Lithium | * | 3.0 | | **15.2** | µg/L | 5 | 03/06/2023 11:31 | 203466 |
| Molybdenum | NELAP | 1.5 | | **25.4** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Selenium | NELAP | 1.0 | | **3.4** | µg/L | 5 | 03/03/2023 14:35 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 14:35 | 203466 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-006
**Client Sample ID:** 13
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 10:28

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 20:19 | 203469 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-007 **Client Sample ID:** 16

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 15:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **54.86** | ft | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.25** | | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **57.7** | mV | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1255** | µS/cm | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **17.8** | °C | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.26** | mg/L | 1 | 02/28/2023 15:57 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **285** | mg/L | 1 | 03/03/2023 15:13 | R325591 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/03/2023 15:13 | R325591 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **508** | mg/L | 1 | 03/02/2023 11:25 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **78** | mg/L | 5 | 03/07/2023 16:21 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.24** | mg/L | 1 | 03/02/2023 12:56 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **92** | mg/L | 5 | 03/07/2023 16:21 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | S | **99.4** | mg/L | 1 | 03/03/2023 17:02 | 203466 |
| Magnesium | NELAP | 0.050 | | **33.4** | mg/L | 1 | 03/03/2023 17:02 | 203466 |
| Potassium | NELAP | 0.100 | | **4.80** | mg/L | 1 | 03/06/2023 13:33 | 203466 |
| Sodium | NELAP | 0.050 | | **57.3** | mg/L | 1 | 03/03/2023 17:02 | 203466 |
| *Matrix spike control limits are not applicable due to high sample/spike ratio.* | | | | | | | | |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Barium | NELAP | 1.0 | | **117** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 12:03 | 203466 |
| Boron | NELAP | 25.0 | | **207** | µg/L | 5 | 03/06/2023 12:03 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 12:03 | 203466 |
| Cobalt | NELAP | 1.0 | J | **0.1** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Lithium | * | 3.0 | | **7.7** | µg/L | 5 | 03/06/2023 12:03 | 203466 |
| Molybdenum | NELAP | 1.5 | | **10.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 15:06 | 203466 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-007
**Client Sample ID:** 16
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 15:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 20:28 | 203469 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-008 **Client Sample ID:** 17

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 16:14

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **59.08** | ft | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.01** | | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **118** | mV | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1505** | µS/cm | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **14.6** | °C | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **2.22** | mg/L | 1 | 02/28/2023 16:14 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **387** | mg/L | 1 | 03/03/2023 15:20 | R325591 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/03/2023 15:20 | R325591 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **630** | mg/L | 1 | 03/02/2023 11:25 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **77** | mg/L | 5 | 03/07/2023 16:42 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.13** | mg/L | 1 | 03/02/2023 12:58 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **108** | mg/L | 5 | 03/07/2023 16:42 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **133** | mg/L | 1 | 03/03/2023 17:13 | 203466 |
| Magnesium | NELAP | 0.050 | | **42.6** | mg/L | 1 | 03/03/2023 17:13 | 203466 |
| Potassium | NELAP | 0.100 | | **3.85** | mg/L | 1 | 03/06/2023 13:44 | 203466 |
| Sodium | NELAP | 0.050 | | **56.5** | mg/L | 1 | 03/03/2023 17:13 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Barium | NELAP | 1.0 | | **190** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 11:37 | 203466 |
| Boron | NELAP | 25.0 | | **106** | µg/L | 5 | 03/06/2023 11:37 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 11:37 | 203466 |
| Cobalt | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Lithium | * | 3.0 | | **5.9** | µg/L | 5 | 03/06/2023 11:37 | 203466 |
| Molybdenum | NELAP | 1.5 | | **1.8** | µg/L | 5 | 03/06/2023 11:37 | 203466 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 14:41 | 203466 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-008
**Client Sample ID:** 17
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 16:14

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 20:33 | 203469 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-021 **Client Sample ID:** 46

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 16:34

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **51.67** | ft | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.32** | | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **112.5** | mV | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1184** | µS/cm | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **15.9** | °C | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.95** | mg/L | 1 | 02/28/2023 16:34 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **244** | mg/L | 1 | 03/06/2023 10:26 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 10:26 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **496** | mg/L | 1 | 03/02/2023 12:09 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **86** | mg/L | 5 | 03/07/2023 17:51 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.24** | mg/L | 1 | 03/02/2023 13:18 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **94** | mg/L | 5 | 03/07/2023 17:51 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **84.6** | mg/L | 1 | 03/03/2023 17:54 | 203466 |
| Magnesium | NELAP | 0.050 | | **30.8** | mg/L | 1 | 03/03/2023 17:54 | 203466 |
| Potassium | NELAP | 0.100 | | **4.29** | mg/L | 1 | 03/06/2023 15:22 | 203466 |
| Sodium | NELAP | 0.050 | | **64.2** | mg/L | 1 | 03/03/2023 17:54 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Arsenic | NELAP | 1.0 | J | **0.4** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Barium | NELAP | 1.0 | | **90.9** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 13:39 | 203466 |
| Boron | NELAP | 25.0 | | **244** | µg/L | 5 | 03/06/2023 13:39 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Chromium | NELAP | 1.5 | J | **0.9** | µg/L | 5 | 03/06/2023 13:39 | 203466 |
| Cobalt | NELAP | 1.0 | J | **0.4** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Lithium | * | 3.0 | | **8.4** | µg/L | 5 | 03/06/2023 13:39 | 203466 |
| Molybdenum | NELAP | 1.5 | | **31.2** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Selenium | NELAP | 1.0 | J | **0.8** | µg/L | 5 | 03/03/2023 16:09 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 16:09 | 203466 |

*CCV recovered outside the upper control limits for Pb. 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:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-021
**Client Sample ID:** 46
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 16:34

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 21:05 | 203470 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-022 **Client Sample ID:** 47

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 9:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **55.79** | ft | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **6.97** | | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **0.3** | NTU | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **185.2** | mV | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1286** | µS/cm | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **17.7** | °C | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **2.27** | mg/L | 1 | 03/01/2023 9:37 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **275** | mg/L | 1 | 03/06/2023 10:32 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 10:32 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **570** | mg/L | 1 | 03/02/2023 12:10 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **86** | mg/L | 5 | 03/07/2023 17:59 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.29** | mg/L | 1 | 03/02/2023 13:20 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **111** | mg/L | 5 | 03/07/2023 17:59 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **109** | mg/L | 1 | 03/03/2023 17:58 | 203466 |
| Magnesium | NELAP | 0.050 | | **32.2** | mg/L | 1 | 03/03/2023 17:58 | 203466 |
| Potassium | NELAP | 0.100 | | **4.80** | mg/L | 1 | 03/06/2023 15:26 | 203466 |
| Sodium | NELAP | 0.050 | | **63.3** | mg/L | 1 | 03/03/2023 17:58 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Barium | NELAP | 1.0 | | **126** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 13:45 | 203466 |
| Boron | NELAP | 25.0 | | **277** | µg/L | 5 | 03/06/2023 13:45 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 13:45 | 203466 |
| Cobalt | NELAP | 1.0 | J | **0.5** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Lithium | * | 3.0 | | **9.4** | µg/L | 5 | 03/06/2023 13:45 | 203466 |
| Molybdenum | NELAP | 1.5 | | **35.9** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Selenium | NELAP | 1.0 | J | **1.0** | µg/L | 5 | 03/03/2023 16:16 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 16:16 | 203466 |

*CCV recovered outside the upper control limits for Pb. 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:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-022
**Client Sample ID:** 47
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 9:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 21:07 | 203470 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-027 **Client Sample ID:** 52

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 16:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **54.05** | ft | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.16** | | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **1.64** | NTU | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **130.5** | mV | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1254** | µS/cm | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **17.4** | °C | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **1.93** | mg/L | 1 | 02/28/2023 16:57 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **255** | mg/L | 1 | 03/06/2023 10:47 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 10:47 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **506** | mg/L | 1 | 03/02/2023 12:55 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 20 | | **79** | mg/L | 2 | 03/08/2023 10:50 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.28** | mg/L | 1 | 03/02/2023 13:39 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 10 | | **93** | mg/L | 10 | 03/07/2023 19:24 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **93.6** | mg/L | 1 | 03/03/2023 18:39 | 203466 |
| Magnesium | NELAP | 0.050 | | **26.8** | mg/L | 1 | 03/03/2023 18:39 | 203466 |
| Potassium | NELAP | 0.100 | | **4.98** | mg/L | 1 | 03/06/2023 16:37 | 203466 |
| Sodium | NELAP | 0.050 | | **69.2** | mg/L | 1 | 03/03/2023 18:39 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Barium | NELAP | 1.0 | | **104** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 14:37 | 203466 |
| Boron | NELAP | 25.0 | | **285** | µg/L | 5 | 03/06/2023 14:37 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 14:37 | 203466 |
| Cobalt | NELAP | 1.0 | J | **0.3** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Lithium | * | 3.0 | | **6.4** | µg/L | 5 | 03/06/2023 14:37 | 203466 |
| Molybdenum | NELAP | 1.5 | | **14.0** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Selenium | NELAP | 1.0 | | **1.5** | µg/L | 5 | 03/03/2023 17:42 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 17:42 | 203466 |

*CCV recovered outside the upper control limits for Pb. 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:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-027
**Client Sample ID:** 52
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 16:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/07/2023 5:14 | 203470 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-028 **Client Sample ID:** 54

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 9:59

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **53.35** | ft | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **7.17** | | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **2.18** | NTU | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **186** | mV | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1264** | µS/cm | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **17.7** | °C | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.89** | mg/L | 1 | 03/01/2023 9:59 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **271** | mg/L | 1 | 03/06/2023 10:54 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 10:54 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **538** | mg/L | 1 | 03/02/2023 12:55 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 100 | | **107** | mg/L | 10 | 03/07/2023 19:32 | R325693 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.30** | mg/L | 1 | 03/02/2023 13:41 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 10 | | **93** | mg/L | 10 | 03/07/2023 19:32 | R325696 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **96.2** | mg/L | 1 | 03/03/2023 18:42 | 203466 |
| Magnesium | NELAP | 0.050 | | **32.5** | mg/L | 1 | 03/03/2023 18:42 | 203466 |
| Potassium | NELAP | 0.100 | | **5.70** | mg/L | 1 | 03/06/2023 16:41 | 203466 |
| Sodium | NELAP | 0.050 | | **72.7** | mg/L | 1 | 03/03/2023 18:42 | 203466 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Barium | NELAP | 1.0 | | **76.1** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 14:43 | 203466 |
| Boron | NELAP | 25.0 | | **967** | µg/L | 5 | 03/06/2023 14:43 | 203466 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 14:43 | 203466 |
| Cobalt | NELAP | 1.0 | J | **0.6** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Lithium | * | 3.0 | | **15.8** | µg/L | 5 | 03/06/2023 14:43 | 203466 |
| Molybdenum | NELAP | 1.5 | | **36.6** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Selenium | NELAP | 1.0 | | **1.5** | µg/L | 5 | 03/03/2023 17:48 | 203466 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 17:48 | 203466 |

*CCV recovered outside the upper control limits for Pb. 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:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-028
**Client Sample ID:** 54
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 9:59

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/07/2023 5:17 | 203470 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-029
**Client Sample ID:** 55
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 10:08

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **51.55** | ft | 1 | 03/01/2023 10:08 | R325999 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-033 **Client Sample ID:** 08D

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 14:42

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **54.27** | ft | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **6.48** | | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **158.6** | mV | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **3178** | µS/cm | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **13.3** | °C | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.32** | mg/L | 1 | 03/01/2023 14:42 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **547** | mg/L | 1 | 03/06/2023 11:25 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 11:25 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **1440** | mg/L | 1 | 03/02/2023 12:57 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 100 | | **279** | mg/L | 10 | 03/08/2023 11:20 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.10** | mg/L | 1 | 03/02/2023 13:48 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 10 | | **319** | mg/L | 10 | 03/08/2023 11:20 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **255** | mg/L | 1 | 03/03/2023 19:31 | 203468 |
| Magnesium | NELAP | 0.050 | | **70.1** | mg/L | 1 | 03/03/2023 19:31 | 203468 |
| Potassium | NELAP | 0.100 | | **4.16** | mg/L | 1 | 03/06/2023 17:55 | 203468 |
| Sodium | NELAP | 0.050 | | **238** | mg/L | 1 | 03/03/2023 19:31 | 203468 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Barium | NELAP | 1.0 | | **139** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 15:02 | 203468 |
| Boron | NELAP | 25.0 | | **94.2** | µg/L | 5 | 03/06/2023 15:02 | 203468 |
| Cadmium | NELAP | 1.0 | J | **0.7** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Chromium | NELAP | 1.5 | | **5.2** | µg/L | 5 | 03/06/2023 15:02 | 203468 |
| Cobalt | NELAP | 1.0 | | **5.2** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Lead | NELAP | 1.0 | J | **0.7** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Lithium | * | 3.0 | | **12.7** | µg/L | 5 | 03/06/2023 15:02 | 203468 |
| Molybdenum | NELAP | 1.5 | J | **1.1** | µg/L | 5 | 03/06/2023 15:02 | 203468 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 11:46 | 203468 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 11:46 | 203468 |

# Laboratory Results

http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-033 **Client Sample ID:** 08D

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 14:42

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/07/2023 5:28 | 203470 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-040
**Client Sample ID:** SG02
**Matrix:** GROUNDWATER
**Collection Date:** 03/02/2023 7:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **449.50** | ft | 1 | 03/02/2023 7:30 | R325999 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-041 **Client Sample ID:** XPW01

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 15:19

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **9.39** | ft | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **11.2** | | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **61.56** | NTU | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **-301.2** | mV | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1501** | µS/cm | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **15.8** | °C | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.24** | mg/L | 1 | 02/28/2023 15:19 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/03/2023 17:08 | R325591 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **122** | mg/L | 1 | 03/03/2023 17:08 | R325591 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **558** | mg/L | 1 | 03/02/2023 13:37 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **205** | mg/L | 5 | 03/08/2023 12:51 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.32** | mg/L | 1 | 03/02/2023 14:10 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **75** | mg/L | 5 | 03/08/2023 12:51 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **36.3** | mg/L | 1 | 03/03/2023 20:11 | 203468 |
| Magnesium | NELAP | 0.050 | | **1.24** | mg/L | 1 | 03/03/2023 20:11 | 203468 |
| Potassium | NELAP | 1.00 | | **40.2** | mg/L | 10 | 03/06/2023 17:07 | 203468 |
| Sodium | NELAP | 0.050 | | **147** | mg/L | 1 | 03/03/2023 20:11 | 203468 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-042 **Client Sample ID:** XPW02

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 8:13

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **13.10** | ft | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **11.9** | | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **1.32** | NTU | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **-43.6** | mV | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **4915** | µS/cm | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **14.3** | °C | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.46** | mg/L | 1 | 03/01/2023 8:13 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 11:40 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **207** | mg/L | 1 | 03/06/2023 11:40 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **1420** | mg/L | 1 | 03/02/2023 13:38 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 200 | | **406** | mg/L | 20 | 03/08/2023 18:05 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **1.37** | mg/L | 1 | 03/02/2023 14:12 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 1 | | **45** | mg/L | 1 | 03/08/2023 12:53 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **39.8** | mg/L | 1 | 03/03/2023 20:15 | 203468 |
| Magnesium | NELAP | 0.050 | | **0.114** | mg/L | 1 | 03/03/2023 20:15 | 203468 |
| Potassium | NELAP | 1.00 | | **53.4** | mg/L | 10 | 03/06/2023 17:10 | 203468 |
| Sodium | NELAP | 0.050 | | **472** | mg/L | 1 | 03/03/2023 20:15 | 203468 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-043 **Client Sample ID:** XPW03

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 15:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **4.91** | ft | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **11.5** | | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **9.92** | NTU | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **-20.1** | mV | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **1982** | µS/cm | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **13.0** | °C | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **6.27** | mg/L | 1 | 03/01/2023 15:37 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 11:51 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **65** | mg/L | 1 | 03/06/2023 11:51 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **642** | mg/L | 1 | 03/02/2023 13:38 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 100 | | **243** | mg/L | 10 | 03/08/2023 18:10 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **0.14** | mg/L | 1 | 03/02/2023 14:17 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 5 | | **62** | mg/L | 5 | 03/08/2023 13:07 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | S | **106** | mg/L | 1 | 03/03/2023 20:19 | 203468 |
| Magnesium | NELAP | 0.050 | | **0.294** | mg/L | 1 | 03/03/2023 20:19 | 203468 |
| Potassium | NELAP | 1.00 | | **25.1** | mg/L | 10 | 03/06/2023 17:14 | 203468 |
| Sodium | NELAP | 0.050 | S | **119** | mg/L | 1 | 03/03/2023 20:19 | 203468 |

*Matrix spike control limits for are not applicable due to high sample/spike ratio.*

# Laboratory Results

Teklab, Inc.
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**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-044 **Client Sample ID:** XSG01

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 16:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **12.00** | ft | 1 | 02/28/2023 16:30 | R325999 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-050 **Client Sample ID:** 08 Duplicate

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 15:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | |
| Depth to water from measuring point | * | 0 | | **54.20** | ft | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHOD 4500-H B 2001 FIELD** | | | | | | | | |
| pH | * | 1.00 | | **6.67** | | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | |
| Turbidity | * | 1.0 | | **< 1.0** | NTU | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | **161** | mV | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | **2438** | µS/cm | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | |
| Temperature | * | 0 | | **13.1** | °C | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | **0.52** | mg/L | 1 | 03/01/2023 15:01 | R325999 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **518** | mg/L | 1 | 03/06/2023 11:59 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/06/2023 11:59 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **1080** | mg/L | 1 | 03/02/2023 14:09 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 50 | | **136** | mg/L | 5 | 03/08/2023 13:09 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | J | **0.10** | mg/L | 1 | 03/02/2023 14:26 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 10 | | **222** | mg/L | 10 | 03/08/2023 13:28 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **177** | mg/L | 1 | 03/03/2023 20:30 | 203468 |
| Magnesium | NELAP | 0.050 | | **43.9** | mg/L | 1 | 03/03/2023 20:30 | 203468 |
| Potassium | NELAP | 0.100 | | **7.85** | mg/L | 1 | 03/06/2023 18:17 | 203468 |
| Sodium | NELAP | 0.050 | | **186** | mg/L | 1 | 03/03/2023 20:30 | 203468 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Barium | NELAP | 1.0 | | **107** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 16:51 | 203468 |
| Boron | NELAP | 25.0 | | **107** | µg/L | 5 | 03/06/2023 16:51 | 203468 |
| Cadmium | NELAP | 1.0 | J | **0.5** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 16:51 | 203468 |
| Cobalt | NELAP | 1.0 | | **7.6** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Lithium | * | 3.0 | | **11.8** | µg/L | 5 | 03/06/2023 16:51 | 203468 |
| Molybdenum | NELAP | 1.5 | J | **1.5** | µg/L | 5 | 03/06/2023 16:51 | 203468 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:39 | 203468 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 13:39 | 203468 |

# Laboratory Results

Teklab, Inc.
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**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23
**Lab ID:** 23020845-050
**Client Sample ID:** 08 Duplicate
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 15:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 19:22 | 203471 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

**Lab ID:** 23020845-051 **Client Sample ID:** Field Blank

**Matrix:** AQUEOUS **Collection Date:** 03/01/2023 17:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | **1** | mg/L | 1 | 03/07/2023 8:46 | R325659 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | **0** | mg/L | 1 | 03/07/2023 8:46 | R325659 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | **< 20** | mg/L | 1 | 03/02/2023 14:09 | R325574 |
| **SW-846 9036 (TOTAL)** | | | | | | | | |
| Sulfate | NELAP | 10 | | **< 10** | mg/L | 1 | 03/08/2023 13:33 | R325765 |
| **SW-846 9214 (TOTAL)** | | | | | | | | |
| Fluoride | NELAP | 0.10 | | **< 0.10** | mg/L | 1 | 03/02/2023 14:29 | R325510 |
| **SW-846 9251 (TOTAL)** | | | | | | | | |
| Chloride | NELAP | 1 | | **< 1** | mg/L | 1 | 03/08/2023 13:33 | R325771 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | |
| Calcium | NELAP | 0.100 | | **< 0.100** | mg/L | 1 | 03/03/2023 20:34 | 203468 |
| Magnesium | NELAP | 0.050 | | **< 0.050** | mg/L | 1 | 03/03/2023 20:34 | 203468 |
| Potassium | NELAP | 0.100 | | **< 0.100** | mg/L | 1 | 03/06/2023 18:21 | 203468 |
| Sodium | NELAP | 0.050 | | **< 0.050** | mg/L | 1 | 03/03/2023 20:34 | 203468 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | |
| Antimony | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Arsenic | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Barium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Beryllium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/06/2023 18:08 | 203468 |
| Boron | NELAP | 25.0 | | **< 25.0** | µg/L | 5 | 03/07/2023 9:57 | 203468 |
| Cadmium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Chromium | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/06/2023 18:08 | 203468 |
| Cobalt | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Lead | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Lithium | * | 3.0 | | **< 3.0** | µg/L | 5 | 03/07/2023 9:57 | 203468 |
| Molybdenum | NELAP | 1.5 | | **< 1.5** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Selenium | NELAP | 1.0 | | **< 1.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| Thallium | NELAP | 2.0 | | **< 2.0** | µg/L | 5 | 03/03/2023 13:45 | 203468 |
| **SW-846 7470A (TOTAL)** | | | | | | | | |
| Mercury | NELAP | 0.20 | | **< 0.20** | µg/L | 1 | 03/06/2023 19:27 | 203471 |

# Sample Summary



**Client:** Ramboll
**Client Project:** HEN-23Q1

**Work Order:** 23020845
**Report Date:** 14-Apr-23

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---|---|---|---|---|
| 23020845-002 | 07 | Groundwater | 7 | 03/01/2023 16:16 |
| 23020845-003 | 08 | Groundwater | 9 | 03/01/2023 15:01 |
| 23020845-005 | 12 | Groundwater | 7 | 03/01/2023 10:46 |
| 23020845-006 | 13 | Groundwater | 7 | 03/01/2023 10:28 |
| 23020845-007 | 16 | Groundwater | 5 | 02/28/2023 15:57 |
| 23020845-008 | 17 | Groundwater | 5 | 02/28/2023 16:14 |
| 23020845-021 | 46 | Groundwater | 2 | 02/28/2023 16:34 |
| 23020845-022 | 47 | Groundwater | 2 | 03/01/2023 9:37 |
| 23020845-027 | 52 | Groundwater | 2 | 02/28/2023 16:57 |
| 23020845-028 | 54 | Groundwater | 2 | 03/01/2023 9:59 |
| 23020845-029 | 55 | Groundwater | 1 | 03/01/2023 10:08 |
| 23020845-033 | 08D | Groundwater | 9 | 03/01/2023 14:42 |
| 23020845-040 | SG02 | Groundwater | 1 | 03/02/2023 7:30 |
| 23020845-041 | XPW01 | Groundwater | 2 | 02/28/2023 15:19 |
| 23020845-042 | XPW02 | Groundwater | 2 | 03/01/2023 8:13 |
| 23020845-043 | XPW03 | Groundwater | 2 | 03/01/2023 15:37 |
| 23020845-044 | XSG01 | Groundwater | 1 | 02/28/2023 16:30 |
| 23020845-050 | 08 Duplicate | Groundwater | 9 | 03/01/2023 15:01 |
| 23020845-051 | Field Blank | Aqueous | 9 | 03/01/2023 17:01 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23020845-002A | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 16:16 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 16:16 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 16:16 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 16:16 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/03/2023 14:45 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/03/2023 14:45 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 16:16 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 11:20 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 16:16 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:13 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 13:51 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 13:51 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 16:16 |
| | SW-846 9036 (Total) | | | | 03/07/2023 15:09 |
| | SW-846 9214 (Total) | | | | 03/02/2023 12:46 |
| | SW-846 9251 (Total) | | | | 03/07/2023 15:09 |
| 23020845-002B | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | EPA 314.0 | | | | 03/09/2023 0:00 |
| 23020845-002C | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 9:07 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 12:15 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 9:07 |
| 23020845-002D | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 16:32 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 13:51 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 10:27 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:08 | 03/06/2023 19:54 |
| 23020845-002E | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/02/2023 17:39 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:08 | 03/06/2023 20:05 |
| 23020845-002F | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/02/2023 14:59 | 03/03/2023 17:37 |
| 23020845-002G | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 03/02/2023 11:25 |
| 23020845-003A | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 15:01 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/03/2023 14:59 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/03/2023 14:59 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/03/2023 14:59 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 11:23 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:15 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 13:53 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 13:53 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 15:01 |
| | SW-846 9036 (Total) | | | | 03/07/2023 15:14 |
| | SW-846 9214 (Total) | | | | 03/02/2023 12:49 |
| | SW-846 9251 (Total) | | | | 03/08/2023 11:02 |
| 23020845-003B | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | EPA 314.0 | | | | 03/09/2023 0:00 |
| 23020845-003C | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | Standard Methods 2550 B Field | | | | 03/01/2023 15:01 |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 9:44 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 12:17 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 9:50 |
| 23020845-003D | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 16:51 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 13:22 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 14:23 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 11:18 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/16/2023 15:23 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:08 | 03/06/2023 20:08 |
| 23020845-003E | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 03/02/2023 9:16 | 03/09/2023 9:02 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/02/2023 17:45 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/03/2023 16:11 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/16/2023 15:27 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:08 | 03/06/2023 20:10 |
| 23020845-003F | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9012A (Total) | | | 03/02/2023 14:59 | 03/03/2023 18:03 |
| 23020845-003G | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 9066 (Total) | | | | 03/06/2023 15:45 |
| 23020845-003H | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 03/03/2023 17:13 |
| 23020845-003I | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 03/02/2023 11:50 |
| 23020845-005A | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 10:46 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 10:46 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 10:46 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 9:45 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 10:46 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 9:45 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 9:45 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 10:46 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 11:24 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 10:46 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:18 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 11:34 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 11:34 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 10:46 |
| | SW-846 9036 (Total) | | | | 03/07/2023 16:05 |
| | SW-846 9214 (Total) | | | | 03/02/2023 12:52 |
| | SW-846 9251 (Total) | | | | 03/07/2023 16:05 |
| 23020845-005B | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | Standard Methods 2550 B Field | | | | 03/01/2023 10:46 |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 10:06 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 12:21 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 10:06 |
| 23020845-005C | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 16:55 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 13:26 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 14:29 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 11:25 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:08 | 03/06/2023 20:14 |
| 23020845-005D | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-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 (Dissolved) | | | 03/02/2023 9:16 | 03/09/2023 9:05 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/02/2023 17:51 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/03/2023 16:43 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/06/2023 10:01 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:08 | 03/06/2023 20:17 |
| 23020845-005E | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/02/2023 14:59 | 03/03/2023 18:11 |
| 23020845-005F | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | SW-846 9066 (Total) | | | | 03/06/2023 15:53 |
| 23020845-005G | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 03/03/2023 12:06 |
| 23020845-006A | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 10:28 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 10:28 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 10:28 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 9:58 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 10:28 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 9:58 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 9:58 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 10:28 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 11:25 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 10:28 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:19 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 11:54 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 11:54 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 10:28 |
| | SW-846 9036 (Total) | | | | 03/07/2023 16:13 |
| | SW-846 9214 (Total) | | | | 03/02/2023 12:54 |
| | SW-846 9251 (Total) | | | | 03/07/2023 16:13 |
| 23020845-006B | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | Standard Methods 2550 B Field | | | | 03/01/2023 10:28 |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 10:14 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 12:23 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 10:14 |
| 23020845-006C | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 16:58 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 13:30 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-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) | | | 03/02/2023 9:03 | 03/03/2023 14:35 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 11:31 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:08 | 03/06/2023 20:19 |
| 23020845-006D | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 03/02/2023 9:16 | 03/09/2023 9:25 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/02/2023 18:43 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/03/2023 16:24 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:08 | 03/06/2023 20:21 |
| 23020845-006E | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/02/2023 14:59 | 03/03/2023 18:16 |
| 23020845-006F | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | SW-846 9066 (Total) | | | | 03/06/2023 16:01 |
| 23020845-006G | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 03/03/2023 12:26 |
| 23020845-007A | 16 | 02/28/2023 15:57 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 02/28/2023 15:57 |
| | Standard Method 4500-H B 2001 Field | | | | 02/28/2023 15:57 |
| | Standard Methods 2130 B Field | | | | 02/28/2023 15:57 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 02/28/2023 15:57 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/03/2023 15:13 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/03/2023 15:13 |
| | Standard Methods 2510 B Field | | | | 02/28/2023 15:57 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 11:25 |
| | Standard Methods 2550 B Field | | | | 02/28/2023 15:57 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:10 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 12:01 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 12:01 |
| | Standard Methods 4500-O G Field | | | | 02/28/2023 15:57 |
| | SW-846 9036 (Total) | | | | 03/07/2023 16:21 |
| | SW-846 9214 (Total) | | | | 03/02/2023 12:56 |
| | SW-846 9251 (Total) | | | | 03/07/2023 16:21 |
| 23020845-007B | 16 | 02/28/2023 15:57 | 03/02/2023 8:00 | | |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 10:35 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 12:24 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 10:35 |
| 23020845-007C | 16 | 02/28/2023 15:57 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 17:02 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-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) | | | 03/02/2023 9:03 | 03/06/2023 13:33 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 15:06 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 12:03 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:08 | 03/06/2023 20:28 |
| 23020845-007D | 16 | 02/28/2023 15:57 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:16 | 03/02/2023 18:49 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:08 | 03/06/2023 20:31 |
| 23020845-007E | 16 | 02/28/2023 15:57 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/02/2023 14:59 | 03/03/2023 16:58 |
| 23020845-008A | 17 | 02/28/2023 16:14 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 02/28/2023 16:14 |
| | Standard Method 4500-H B 2001 Field | | | | 02/28/2023 16:14 |
| | Standard Methods 2130 B Field | | | | 02/28/2023 16:14 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 02/28/2023 16:14 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/03/2023 15:20 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/03/2023 15:20 |
| | Standard Methods 2510 B Field | | | | 02/28/2023 16:14 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 11:25 |
| | Standard Methods 2550 B Field | | | | 02/28/2023 16:14 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:12 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 12:07 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 12:07 |
| | Standard Methods 4500-O G Field | | | | 02/28/2023 16:14 |
| | SW-846 9036 (Total) | | | | 03/07/2023 16:42 |
| | SW-846 9214 (Total) | | | | 03/02/2023 12:58 |
| | SW-846 9251 (Total) | | | | 03/07/2023 16:42 |
| 23020845-008B | 17 | 02/28/2023 16:14 | 03/02/2023 8:00 | | |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 10:43 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 12:26 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 10:43 |
| 23020845-008C | 17 | 02/28/2023 16:14 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 17:13 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 13:44 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 14:41 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 11:37 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:08 | 03/06/2023 20:33 |
| 23020845-008D | 17 | 02/28/2023 16:14 | 03/02/2023 8:00 | | |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-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) | | | 03/02/2023 9:16 | 03/02/2023 18:55 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:08 | 03/06/2023 20:35 |
| 23020845-008E | 17 | 02/28/2023 16:14 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/02/2023 14:59 | 03/03/2023 18:20 |
| 23020845-021A | 46 | 02/28/2023 16:34 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 02/28/2023 16:34 |
| | Standard Method 4500-H B 2001 Field | | | | 02/28/2023 16:34 |
| | Standard Methods 2130 B Field | | | | 02/28/2023 16:34 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 02/28/2023 16:34 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 10:26 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 10:26 |
| | Standard Methods 2510 B Field | | | | 02/28/2023 16:34 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 12:09 |
| | Standard Methods 2550 B Field | | | | 02/28/2023 16:34 |
| | Standard Methods 4500-O G Field | | | | 02/28/2023 16:34 |
| | SW-846 9036 (Total) | | | | 03/07/2023 17:51 |
| | SW-846 9214 (Total) | | | | 03/02/2023 13:18 |
| | SW-846 9251 (Total) | | | | 03/07/2023 17:51 |
| 23020845-021B | 46 | 02/28/2023 16:34 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 17:54 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 15:22 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 16:09 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 13:39 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:11 | 03/06/2023 21:05 |
| 23020845-022A | 47 | 03/01/2023 9:37 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 9:37 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 9:37 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 9:37 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 9:37 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 10:32 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 10:32 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 9:37 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 12:10 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 9:37 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 9:37 |
| | SW-846 9036 (Total) | | | | 03/07/2023 17:59 |
| | SW-846 9214 (Total) | | | | 03/02/2023 13:20 |

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9251 (Total) | | | | 03/07/2023 17:59 |
| 23020845-022B | 47 | 03/01/2023 9:37 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 17:58 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 15:26 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 16:16 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 13:45 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:11 | 03/06/2023 21:07 |
| 23020845-027A | 52 | 02/28/2023 16:57 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 02/28/2023 16:57 |
| | Standard Method 4500-H B 2001 Field | | | | 02/28/2023 16:57 |
| | Standard Methods 2130 B Field | | | | 02/28/2023 16:57 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 02/28/2023 16:57 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 10:47 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 10:47 |
| | Standard Methods 2510 B Field | | | | 02/28/2023 16:57 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 12:55 |
| | Standard Methods 2550 B Field | | | | 02/28/2023 16:57 |
| | Standard Methods 4500-O G Field | | | | 02/28/2023 16:57 |
| | SW-846 9036 (Total) | | | | 03/08/2023 10:50 |
| | SW-846 9214 (Total) | | | | 03/02/2023 13:39 |
| | SW-846 9251 (Total) | | | | 03/07/2023 19:24 |
| 23020845-027B | 52 | 02/28/2023 16:57 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 18:39 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 16:37 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 17:42 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 14:37 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:11 | 03/07/2023 5:14 |
| 23020845-028A | 54 | 03/01/2023 9:59 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 9:59 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 9:59 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 9:59 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 9:59 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 10:54 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 10:54 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 9:59 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 12:55 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 9:59 |

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 9:59 |
| | SW-846 9036 (Total) | | | | 03/07/2023 19:32 |
| | SW-846 9214 (Total) | | | | 03/02/2023 13:41 |
| | SW-846 9251 (Total) | | | | 03/07/2023 19:32 |
| 23020845-028B | 54 | 03/01/2023 9:59 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/03/2023 18:42 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:03 | 03/06/2023 16:41 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/03/2023 17:48 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:03 | 03/06/2023 14:43 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:11 | 03/07/2023 5:17 |
| 23020845-029A | 55 | 03/01/2023 10:08 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 10:08 |
| 23020845-033A | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 14:42 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 14:42 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 14:42 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 11:25 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 14:42 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 11:25 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 11:25 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 14:42 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 12:57 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 14:42 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:21 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 12:40 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 12:40 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 14:42 |
| | SW-846 9036 (Total) | | | | 03/08/2023 11:20 |
| | SW-846 9214 (Total) | | | | 03/02/2023 13:48 |
| | SW-846 9251 (Total) | | | | 03/08/2023 11:20 |
| 23020845-033B | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | EPA 314.0 | | | | 03/09/2023 0:00 |
| 23020845-033C | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | Standard Methods 2550 B Field | | | | 03/01/2023 14:42 |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 11:39 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 11:31 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 11:39 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | Test Name | | | Prep Date/Time | Analysis Date/Time |
| 23020845-033D | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/03/2023 19:31 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/06/2023 17:55 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/03/2023 11:46 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/06/2023 15:02 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:11 | 03/07/2023 5:28 |
| 23020845-033E | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 03/02/2023 9:19 | 03/03/2023 14:37 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:19 | 03/02/2023 20:38 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:19 | 03/03/2023 18:00 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/20/2023 21:00 | 03/22/2023 7:05 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:11 | 03/07/2023 5:30 |
| 23020845-033F | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/03/2023 16:10 | 03/06/2023 13:44 |
| 23020845-033G | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | SW-846 9066 (Total) | | | | 03/06/2023 16:15 |
| 23020845-033H | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 03/03/2023 12:34 |
| 23020845-033I | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 03/02/2023 13:02 |
| 23020845-040A | SG02 | 03/02/2023 7:30 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/02/2023 7:30 |
| 23020845-041A | XPW01 | 02/28/2023 15:19 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 02/28/2023 15:19 |
| | Standard Method 4500-H B 2001 Field | | | | 02/28/2023 15:19 |
| | Standard Methods 2130 B Field | | | | 02/28/2023 15:19 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 02/28/2023 15:19 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/03/2023 17:08 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/03/2023 17:08 |
| | Standard Methods 2510 B Field | | | | 02/28/2023 15:19 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 13:37 |
| | Standard Methods 2550 B Field | | | | 02/28/2023 15:19 |
| | Standard Methods 4500-O G Field | | | | 02/28/2023 15:19 |
| | SW-846 9036 (Total) | | | | 03/08/2023 12:51 |
| | SW-846 9214 (Total) | | | | 03/02/2023 14:10 |
| | SW-846 9251 (Total) | | | | 03/08/2023 12:51 |

Teklab, Inc.
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# Dates Report



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23020845-041B | XPW01 | 02/28/2023 15:19 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/03/2023 20:11 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/06/2023 17:07 |
| 23020845-042A | XPW02 | 03/01/2023 8:13 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 8:13 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 8:13 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 8:13 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 8:13 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 11:40 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 11:40 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 8:13 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 13:38 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 8:13 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 8:13 |
| | SW-846 9036 (Total) | | | | 03/08/2023 18:05 |
| | SW-846 9214 (Total) | | | | 03/02/2023 14:12 |
| | SW-846 9251 (Total) | | | | 03/08/2023 12:53 |
| 23020845-042B | XPW02 | 03/01/2023 8:13 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/03/2023 20:15 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/06/2023 17:10 |
| 23020845-043A | XPW03 | 03/01/2023 15:37 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 15:37 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 15:37 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 15:37 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 15:37 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 11:51 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 11:51 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 15:37 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 13:38 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 15:37 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 15:37 |
| | SW-846 9036 (Total) | | | | 03/08/2023 18:10 |
| | SW-846 9214 (Total) | | | | 03/02/2023 14:17 |
| | SW-846 9251 (Total) | | | | 03/08/2023 13:07 |
| 23020845-043B | XPW03 | 03/01/2023 15:37 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/03/2023 20:19 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/06/2023 17:14 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23020845-044A | XSG01 | 02/28/2023 16:30 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 02/28/2023 16:30 |
| 23020845-050A | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | Field Elevation Measurements | | | | 03/01/2023 15:01 |
| | Standard Method 4500-H B 2001 Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2130 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 11:59 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/06/2023 11:59 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/06/2023 11:59 |
| | Standard Methods 2510 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 14:09 |
| | Standard Methods 2550 B Field | | | | 03/01/2023 15:01 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:28 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 15:19 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 15:19 |
| | Standard Methods 4500-O G Field | | | | 03/01/2023 15:01 |
| | SW-846 9036 (Total) | | | | 03/08/2023 13:09 |
| | SW-846 9214 (Total) | | | | 03/02/2023 14:26 |
| | SW-846 9251 (Total) | | | | 03/08/2023 13:28 |
| 23020845-050B | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | EPA 314.0 | | | | 03/09/2023 0:00 |
| 23020845-050C | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | Standard Methods 2550 B Field | | | | 03/01/2023 15:01 |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 13:44 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 11:56 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 13:45 |
| 23020845-050D | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/03/2023 20:30 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/06/2023 18:17 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/03/2023 13:39 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/06/2023 16:51 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:14 | 03/06/2023 19:22 |
| 23020845-050E | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 03/02/2023 9:19 | 03/03/2023 14:44 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:19 | 03/02/2023 23:17 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:19 | 03/03/2023 19:10 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:14 | 03/06/2023 19:24 |
| 23020845-050F | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/03/2023 16:10 | 03/06/2023 14:45 |
| 23020845-050G | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 9066 (Total) | | | | 03/06/2023 16:28 |
| 23020845-050H | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 03/03/2023 17:33 |
| 23020845-050I | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 03/02/2023 14:41 |
| 23020845-051A | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/07/2023 8:46 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 03/07/2023 8:46 |
| | Standard Methods 2320 B 1997, 2011 | | | | 03/07/2023 8:46 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 03/02/2023 14:09 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 03/02/2023 15:28 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 15:23 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 03/02/2023 15:23 |
| | SW-846 9036 (Total) | | | | 03/08/2023 13:33 |
| | SW-846 9214 (Total) | | | | 03/02/2023 14:29 |
| | SW-846 9251 (Total) | | | | 03/08/2023 13:33 |
| 23020845-051B | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | EPA 314.0 | | | | 03/09/2023 0:00 |
| 23020845-051C | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | SW-846 9036 (Dissolved) | | | | 03/06/2023 13:56 |
| | SW-846 9214 (Dissolved) | | | | 03/02/2023 11:58 |
| | SW-846 9251 (Dissolved) | | | | 03/06/2023 13:55 |
| 23020845-051D | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/03/2023 20:34 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 03/02/2023 9:06 | 03/06/2023 18:21 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/03/2023 13:45 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/06/2023 18:08 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 03/02/2023 9:06 | 03/07/2023 9:57 |
| | SW-846 7470A (Total) | | | 03/02/2023 9:14 | 03/06/2023 19:27 |
| 23020845-051E | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 03/02/2023 9:19 | 03/03/2023 15:23 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 03/02/2023 9:19 | 03/02/2023 23:24 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-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) | | | 03/02/2023 9:19 | 03/03/2023 20:14 |
| | SW-846 7470A (Dissolved) | | | 03/02/2023 9:14 | 03/06/2023 19:38 |
| 23020845-051F | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | SW-846 9012A (Total) | | | 03/03/2023 16:10 | 03/06/2023 14:50 |
| 23020845-051G | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | SW-846 9066 (Total) | | | | 03/06/2023 12:09 |
| 23020845-051H | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 03/03/2023 12:57 |
| 23020845-051I | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 03/02/2023 15:05 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## STANDARD METHOD 4500-H B 2001 FIELD

**Batch** R325999 **SampType:** LCS Units

SampID: LCS-R325999

| 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 | 02/28/2023 |
| pH | * | 1.00 | | **7.09** | 7.000 | 0 | 101.3 | 98.57 | 101.4 | 03/01/2023 |

## STANDARD METHODS 2510 B FIELD

**Batch** R325999 **SampType:** LCS Units **µS/cm**

SampID: LCS-R325999

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Spec. Conductance, Field | * | 0 | | **1460** | 1409 | 0 | 103.6 | 90 | 110 | 03/01/2023 |
| Spec. Conductance, Field | * | 0 | | **1481** | 1409 | 0 | 105.1 | 90 | 110 | 02/28/2023 |

## STANDARD METHODS 2320 B 1997, 2011

**Batch** R325591 **SampType:** MBLK Units **mg/L**

SampID: MBLK

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **0** | | | | | | 03/03/2023 |

**Batch** R325591 **SampType:** LCS Units **mg/L**

SampID: LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **243** | 236.0 | 0 | 103.0 | 90 | 110 | 03/03/2023 |

**Batch** R325591 **SampType:** LCSD Units **mg/L** RPD Limit:

SampID: LCSDUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **235** | 236.0 | 0 | 99.6 | 90 | 110 | 03/03/2023 |

**Batch** R325659 **SampType:** MBLK Units **mg/L**

SampID: MBLK

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **0** | | | | | | 03/06/2023 |

**Batch** R325659 **SampType:** LCS Units **mg/L**

SampID: LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **237** | 236.0 | 0 | 100.4 | 90 | 110 | 03/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## STANDARD METHODS 2320 B 1997, 2011

**Batch** R325659 **SampType:** LCSD Units **mg/L** RPD Limit:
SampID: LCSDUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **236** | 236.0 | 0 | 100.0 | 90 | 110 | 03/06/2023 |
| Alkalinity, Total (as CaCO3) | | 0 | | **240** | 236.0 | 0 | 101.7 | 90 | 110 | 03/06/2023 |

**Batch** R325659 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23020845-005ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **249** | | | | 243.0 | 2.44 | 03/06/2023 |

**Batch** R325659 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23020845-051ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **1** | | | | 1.000 | 0.00 | 03/07/2023 |

## STANDARD METHODS 2540 C (TOTAL) 1997, 2011

**Batch** R325574 **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 | 03/02/2023 |
| Total Dissolved Solids | | 20 | | **< 20** | 16.00 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Total Dissolved Solids | | 20 | | **< 20** | 16.00 | 0 | 0 | -100 | 100 | 03/02/2023 |

**Batch** R325574 **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 | | **920** | 1000 | 0 | 92.0 | 90 | 110 | 03/02/2023 |
| Total Dissolved Solids | | 20 | | **908** | 1000 | 0 | 90.8 | 90 | 110 | 03/02/2023 |
| Total Dissolved Solids | | 20 | | **910** | 1000 | 0 | 91.0 | 90 | 110 | 03/02/2023 |

**Batch** R325574 **SampType:** DUP Units **mg/L** RPD Limit: **5**
SampID: 23020845-005ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **488** | | | | 488.0 | 0.00 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## STANDARD METHODS 2540 C (TOTAL) 1997, 2011

**Batch** R325574 **SampType:** DUP Units **mg/L** RPD Limit: **5**
SampID: 23020845-021ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **492** | | | | 496.0 | 0.81 | 03/02/2023 |

**Batch** R325574 **SampType:** DUP Units **mg/L** RPD Limit: **5**
SampID: 23020845-030ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **540** | | | | 534.0 | 1.12 | 03/02/2023 |

**Batch** R325574 **SampType:** DUP Units **mg/L** RPD Limit: **5**
SampID: 23020845-041ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **544** | | | | 558.0 | 2.54 | 03/02/2023 |

**Batch** R325574 **SampType:** DUP Units **mg/L** RPD Limit: **5**
SampID: 23020845-050ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **1090** | | | | 1080 | 0.74 | 03/02/2023 |

## STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

**Batch** R325556 **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 | 03/03/2023 |

**Batch** R325556 **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 | | **1.01** | 1.000 | 0 | 101.3 | 90 | 110 | 03/03/2023 |

**Batch** R325556 **SampType:** MS Units **mg/L**
SampID: 23020845-005GMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia (as N) | | 0.10 | S | **1.70** | 2.000 | 0 | 85.2 | 90 | 110 | 03/03/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

**Batch** R325556 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-005GMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia (as N) | | 0.10 | S | **1.72** | 2.000 | 0 | 85.8 | 1.705 | 0.58 | 03/03/2023 |

## STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

**Batch** R325452 **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 | 03/01/2023 |

**Batch** R325452 **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 | | **0.65** | 0.6510 | 0 | 99.8 | 90 | 110 | 03/01/2023 |

**Batch** R325452 **SampType:** MS Units **mg/L**
SampID: 23020845-002AMS

| 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 | 97.6 | 85 | 115 | 03/02/2023 |

**Batch** R325452 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-002AMSD

| 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 | 99.0 | 0.4880 | 1.42 | 03/02/2023 |

**Batch** R325452 **SampType:** MS Units **mg/L**
SampID: 23020845-003AMS

| 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 | 0.006000 | 96.8 | 85 | 115 | 03/02/2023 |

**Batch** R325452 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-003AMSD

| 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 | 0.006000 | 97.6 | 0.4900 | 0.81 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

**Batch** R325452 **SampType:** MS Units **mg/L**
SampID: 23020845-005AMS

| 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 | 03/02/2023 |

**Batch** R325452 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-005AMSD

| 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 | 99.8 | 0.4940 | 1.01 | 03/02/2023 |

## STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

**Batch** R325529 **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** | | | | | | 03/02/2023 |
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | **< 0.050** | 0.0090 | 0 | 0 | -100 | 100 | 03/02/2023 |

**Batch** R325529 **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 | | **0.522** | 0.5000 | 0 | 104.4 | 90 | 110 | 03/02/2023 |

**Batch** R325529 **SampType:** MS Units **mg/L**
SampID: 23020845-039AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.250 | | **4.38** | 1.250 | 3.190 | 95.0 | 85 | 115 | 03/02/2023 |

**Batch** R325529 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-039AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.250 | | **4.41** | 1.250 | 3.190 | 97.9 | 4.378 | 0.82 | 03/02/2023 |

**Batch** R325529 **SampType:** MS Units **mg/L**
SampID: 23020845-049AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.250 | | **3.01** | 1.250 | 1.734 | 102.2 | 85 | 115 | 03/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

**Batch** R325529 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-049AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.250 | | **3.02** | 1.250 | 1.734 | 103.0 | 3.011 | 0.36 | 03/02/2023 |

## SW-846 9012A (TOTAL)

**Batch** 203485 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230302 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 | 03/03/2023 |

**Batch** 203485 **SampType:** LCS Units **mg/L**
SampID: LCS 230302 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 | 97.5 | 90 | 110 | 03/03/2023 |

**Batch** 203485 **SampType:** MS Units **mg/L**
SampID: 23020845-007EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.025** | 0.0250 | 0 | 99.5 | 75 | 125 | 03/03/2023 |

**Batch** 203485 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-007EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | R | **0.020** | 0.0250 | 0 | 81.8 | 0.02488 | 19.53 | 03/03/2023 |

**Batch** 203538 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230303 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 | 03/06/2023 |

**Batch** 203538 **SampType:** LCS Units **mg/L**
SampID: LCS 230303 TCN1

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.023** | 0.0250 | 0 | 92.9 | 90 | 110 | 03/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9012A (TOTAL)

**Batch** 203538 **SampType:** MS Units **mg/L**
SampID: 23020845-035FMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.025** | 0.0250 | 0 | 98.2 | 75 | 125 | 03/06/2023 |

**Batch** 203538 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-035FMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.022** | 0.0250 | 0 | 89.5 | 0.02454 | 9.21 | 03/06/2023 |

**Batch** 203538 **SampType:** MS Units **mg/L**
SampID: 23020845-049DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | S | **0.016** | 0.0250 | 0 | 62.8 | 75 | 125 | 03/06/2023 |

**Batch** 203538 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-049DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | R | **0.023** | 0.0250 | 0 | 93.6 | 0.01570 | 39.42 | 03/06/2023 |

## SW-846 9036 (DISSOLVED)

**Batch** R325628 **SampType:** MS Units **mg/L**
SampID: 23020845-002CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **168** | 100.0 | 75.21 | 93.1 | 85 | 115 | 03/06/2023 |

**Batch** R325628 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-002CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **172** | 100.0 | 75.21 | 97.2 | 168.4 | 2.36 | 03/06/2023 |

**Batch** R325628 **SampType:** MS Units **mg/L**
SampID: 23020845-030CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **180** | 100.0 | 88.46 | 91.8 | 85 | 115 | 03/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9036 (DISSOLVED)

**Batch** R325628 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-030CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **185** | 100.0 | 88.46 | 96.3 | 180.3 | 2.47 | 03/06/2023 |

**Batch** R325628 **SampType:** MS Units **mg/L**
SampID: 23020845-034CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **205** | 100.0 | 108.2 | 96.7 | 85 | 115 | 03/06/2023 |

**Batch** R325628 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-034CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **207** | 100.0 | 108.2 | 98.4 | 204.9 | 0.83 | 03/06/2023 |

## SW-846 9036 (TOTAL)

**Batch** R325628 **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 | 03/06/2023 |

**Batch** R325628 **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 | 03/06/2023 |

**Batch** R325693 **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 | 03/07/2023 |

**Batch** R325693 **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 | 100.5 | 90 | 110 | 03/07/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 9036 (TOTAL)

**Batch** R325693 **SampType:** MS Units **mg/L**
SampID: 23020845-003AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **215** | 100.0 | 129.4 | 85.6 | 85 | 115 | 03/07/2023 |

**Batch** R325693 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-003AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **220** | 100.0 | 129.4 | 90.6 | 215.0 | 2.29 | 03/07/2023 |

**Batch** R325693 **SampType:** MS Units **mg/L**
SampID: 23020845-024AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **208** | 100.0 | 108.0 | 100.4 | 85 | 115 | 03/07/2023 |

**Batch** R325693 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-024AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **209** | 100.0 | 108.0 | 101.3 | 208.4 | 0.45 | 03/07/2023 |

**Batch** R325693 **SampType:** MS Units **mg/L**
SampID: 23020845-030AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **179** | 100.0 | 82.42 | 96.2 | 85 | 115 | 03/07/2023 |

**Batch** R325693 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-030AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **182** | 100.0 | 82.42 | 99.3 | 178.7 | 1.71 | 03/07/2023 |

**Batch** R325765 **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 | 03/08/2023 |

**Batch** R325765 **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 | 03/08/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9036 (TOTAL)

**Batch** R325765 **SampType:** MS Units **mg/L**
SampID: 23020845-037AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **212** | 100.0 | 111.8 | 99.9 | 85 | 115 | 03/08/2023 |

**Batch** R325765 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23020845-037AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **209** | 100.0 | 111.8 | 97.3 | 211.7 | 1.21 | 03/08/2023 |

## SW-846 9066 (TOTAL)

**Batch** R325651 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 0.005 | | **< 0.005** | 0.0028 | 0 | 0 | -100 | 100 | 03/06/2023 |

**Batch** R325651 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 0.005 | | **0.055** | 0.0500 | 0 | 109.8 | 90 | 110 | 03/06/2023 |

**Batch** R325651 **SampType:** MS Units **µg/L**
SampID: 23020845-051GMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 5 | | **55** | 50.00 | 3.190 | 104.0 | 85 | 115 | 03/06/2023 |

**Batch** R325651 **SampType:** MSD Units **µg/L** RPD Limit: **15**
SampID: 23020845-051GMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 5 | | **56** | 50.00 | 3.190 | 104.7 | 55.20 | 0.65 | 03/06/2023 |

## SW-846 9214 (DISSOLVED)

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-008BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.24** | 2.000 | 0.1350 | 105.4 | 75 | 125 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9214 (DISSOLVED)

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-008BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.24** | 2.000 | 0.1350 | 105.5 | 2.242 | 0.13 | 03/02/2023 |

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-039CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.37** | 2.000 | 0.2680 | 105.0 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-039CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.43** | 2.000 | 0.2680 | 108.0 | 2.368 | 2.50 | 03/02/2023 |

## SW-846 9214 (TOTAL)

**Batch** R325510 **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** | 0.0370 | 0 | 0 | -100 | 100 | 03/02/2023 |

**Batch** R325510 **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 | | **1.05** | 1.000 | 0 | 105.3 | 90 | 110 | 03/02/2023 |

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-009AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.22** | 2.000 | 0.1560 | 103.4 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-009AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.13** | 2.000 | 0.1560 | 98.8 | 2.224 | 4.18 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9214 (TOTAL)

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-013AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.17** | 2.000 | 0.1270 | 102.0 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-013AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.24** | 2.000 | 0.1270 | 105.4 | 2.168 | 3.04 | 03/02/2023 |

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-025AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.15** | 2.000 | 0.1410 | 100.2 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-025AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.14** | 2.000 | 0.1410 | 100.0 | 2.146 | 0.23 | 03/02/2023 |

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-034AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.28** | 2.000 | 0.1490 | 106.8 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-034AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.24** | 2.000 | 0.1490 | 104.6 | 2.284 | 1.95 | 03/02/2023 |

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-043AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.97** | 2.000 | 0.1400 | 91.6 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-043AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.05** | 2.000 | 0.1400 | 95.5 | 1.971 | 3.93 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9214 (TOTAL)

**Batch** R325510 **SampType:** MS Units **mg/L**
SampID: 23020845-051AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.00** | 2.000 | 0 | 100.0 | 75 | 125 | 03/02/2023 |

**Batch** R325510 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-051AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.05** | 2.000 | 0 | 102.7 | 2.000 | 2.66 | 03/02/2023 |

## SW-846 9251 (DISSOLVED)

**Batch** R325629 **SampType:** MS Units **mg/L**
SampID: 23020845-002CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **179** | 100.0 | 88.87 | 89.7 | 85 | 115 | 03/06/2023 |

**Batch** R325629 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-002CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **178** | 100.0 | 88.87 | 89.5 | 178.5 | 0.10 | 03/06/2023 |

**Batch** R325629 **SampType:** MS Units **mg/L**
SampID: 23020845-030CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **195** | 100.0 | 102.4 | 92.6 | 85 | 115 | 03/06/2023 |

**Batch** R325629 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-030CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **192** | 100.0 | 102.4 | 89.2 | 195.1 | 1.78 | 03/06/2023 |

**Batch** R325629 **SampType:** MS Units **mg/L**
SampID: 23020845-034CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **181** | 100.0 | 86.13 | 94.7 | 85 | 115 | 03/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9251 (DISSOLVED)

**Batch** R325629 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-034CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **179** | 100.0 | 86.13 | 92.9 | 180.8 | 0.97 | 03/06/2023 |

**Batch** R325696 **SampType:** MS Units **mg/L**
SampID: 23020845-013BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **190** | 100.0 | 98.15 | 91.5 | 85 | 115 | 03/07/2023 |

**Batch** R325696 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-013BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **190** | 100.0 | 98.15 | 92.0 | 189.6 | 0.26 | 03/07/2023 |

## SW-846 9251 (TOTAL)

**Batch** R325629 **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 | 03/06/2023 |

**Batch** R325629 **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 | 103.1 | 90 | 110 | 03/06/2023 |

**Batch** R325696 **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 | | 1 | | **< 1** | 0.5000 | 0 | 0 | -100 | 100 | 03/07/2023 |

**Batch** R325696 **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 | | 1 | | **20** | 20.00 | 0 | 99.8 | 90 | 110 | 03/07/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 9251 (TOTAL)

**Batch** R325696 **SampType:** MS Units **mg/L**
SampID: 23020845-024AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **195** | 100.0 | 104.4 | 90.6 | 85 | 115 | 03/07/2023 |

**Batch** R325696 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-024AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **195** | 100.0 | 104.4 | 90.6 | 195.0 | 0.03 | 03/07/2023 |

**Batch** R325696 **SampType:** MS Units **mg/L**
SampID: 23020845-030AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **219** | 100.0 | 130.4 | 89.0 | 85 | 115 | 03/07/2023 |

**Batch** R325696 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-030AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **218** | 100.0 | 130.4 | 87.2 | 219.4 | 0.82 | 03/07/2023 |

**Batch** R325771 **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 | | 1 | | **< 1** | 0.5000 | 0 | 0 | -100 | 100 | 03/08/2023 |

**Batch** R325771 **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 | | 1 | | **20** | 20.00 | 0 | 99.0 | 90 | 110 | 03/08/2023 |

**Batch** R325771 **SampType:** MS Units **mg/L**
SampID: 23020845-003AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **590** | 400.0 | 226.8 | 90.7 | 85 | 115 | 03/08/2023 |

**Batch** R325771 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-003AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **593** | 400.0 | 226.8 | 91.5 | 589.7 | 0.54 | 03/08/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 9251 (TOTAL)

**Batch** R325771 **SampType:** MS Units **mg/L**
SampID: 23020845-037AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **204** | 100.0 | 113.2 | 90.4 | 85 | 115 | 03/08/2023 |

**Batch** R325771 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23020845-037AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 5 | | **200** | 100.0 | 113.2 | 87.0 | 203.5 | 1.68 | 03/08/2023 |

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 203472 **SampType:** MBLK Units **mg/L**
SampID: MBLK-203472

| 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 | 03/09/2023 |
| Magnesium | | 0.050 | | **< 0.050** | 0.0055 | 0 | 0 | -100 | 100 | 03/09/2023 |

**Batch** 203472 **SampType:** LCS Units **mg/L**
SampID: LCS-203472

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.54** | 2.500 | 0 | 101.5 | 85 | 115 | 03/09/2023 |
| Magnesium | | 0.050 | | **2.31** | 2.500 | 0 | 92.2 | 85 | 115 | 03/09/2023 |

**Batch** 203472 **SampType:** MS Units **mg/L**
SampID: 23020845-005DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **74.3** | 2.500 | 73.42 | 35.6 | 75 | 125 | 03/09/2023 |
| Magnesium | | 0.050 | S | **29.1** | 2.500 | 27.39 | 69.3 | 75 | 125 | 03/09/2023 |

**Batch** 203472 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23020845-005DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **75.4** | 2.500 | 73.42 | 80.4 | 74.31 | 1.50 | 03/09/2023 |
| Magnesium | | 0.050 | | **29.7** | 2.500 | 27.39 | 92.5 | 29.12 | 1.97 | 03/09/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 203473 **SampType:** MBLK Units **mg/L**
SampID: MBLK-203473

| 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 | 03/03/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 03/03/2023 |

**Batch** 203473 **SampType:** LCS Units **mg/L**
SampID: LCS-203473

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.45** | 2.500 | 0 | 97.9 | 85 | 115 | 03/03/2023 |
| Magnesium | | 0.0500 | | **2.41** | 2.500 | 0 | 96.6 | 85 | 115 | 03/03/2023 |

**Batch** 203473 **SampType:** MS Units **mg/L**
SampID: 23020845-051EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.44** | 2.500 | 0 | 97.6 | 75 | 125 | 03/03/2023 |
| Magnesium | | 0.050 | | **2.40** | 2.500 | 0 | 96.1 | 75 | 125 | 03/03/2023 |

**Batch** 203473 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23020845-051EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.45** | 2.500 | 0 | 97.8 | 2.439 | 0.29 | 03/03/2023 |
| Magnesium | | 0.050 | | **2.43** | 2.500 | 0 | 97.1 | 2.403 | 1.03 | 03/03/2023 |

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 203466 **SampType:** MBLK Units **mg/L**
SampID: MBLK-203466

| 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 | 03/03/2023 |
| Magnesium | | 0.050 | | **< 0.050** | 0.0055 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Sodium | | 0.050 | | **< 0.050** | 0.0180 | 0 | 0 | -100 | 100 | 03/03/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 203466 **SampType:** LCS Units **mg/L**
SampID: LCS-203466

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.65** | 2.500 | 0 | 106.1 | 85 | 115 | 03/03/2023 |
| Magnesium | | 0.050 | | **2.63** | 2.500 | 0 | 105.2 | 85 | 115 | 03/03/2023 |
| Potassium | | 0.100 | | **2.52** | 2.500 | 0 | 101.0 | 85 | 115 | 03/03/2023 |
| Sodium | | 0.050 | | **2.50** | 2.500 | 0 | 100.1 | 85 | 115 | 03/03/2023 |

**Batch** 203466 **SampType:** MS Units **mg/L**
SampID: 23020845-007CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **102** | 2.500 | 99.38 | 120.8 | 75 | 125 | 03/03/2023 |
| Magnesium | | 0.050 | | **36.2** | 2.500 | 33.39 | 114.4 | 75 | 125 | 03/03/2023 |
| Potassium | | 0.100 | | **7.73** | 2.500 | 4.797 | 117.4 | 75 | 125 | 03/06/2023 |
| Sodium | | 0.050 | | **60.0** | 2.500 | 57.31 | 107.2 | 75 | 125 | 03/03/2023 |

**Batch** 203466 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23020845-007CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **103** | 2.500 | 99.38 | 136.8 | 102.4 | 0.39 | 03/03/2023 |
| Magnesium | | 0.050 | | **36.2** | 2.500 | 33.39 | 114.4 | 36.25 | 0.00 | 03/03/2023 |
| Potassium | | 0.100 | | **7.42** | 2.500 | 4.797 | 105.1 | 7.731 | 4.05 | 03/06/2023 |
| Sodium | | 0.050 | | **60.2** | 2.500 | 57.31 | 116.0 | 59.99 | 0.37 | 03/03/2023 |

**Batch** 203466 **SampType:** MS Units **mg/L**
SampID: 23020845-023BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **90.9** | 2.500 | 87.61 | 130.8 | 75 | 125 | 03/03/2023 |
| Magnesium | | 0.050 | | **32.2** | 2.500 | 29.43 | 110.0 | 75 | 125 | 03/03/2023 |
| Potassium | | 0.100 | | **8.52** | 2.500 | 5.864 | 106.4 | 75 | 125 | 03/06/2023 |
| Sodium | | 0.050 | | **54.1** | 2.500 | 51.50 | 104.8 | 75 | 125 | 03/03/2023 |

**Batch** 203466 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23020845-023BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **90.2** | 2.500 | 87.61 | 101.6 | 90.88 | 0.81 | 03/03/2023 |
| Magnesium | | 0.050 | | **31.9** | 2.500 | 29.43 | 98.4 | 32.18 | 0.91 | 03/03/2023 |
| Potassium | | 0.100 | | **8.42** | 2.500 | 5.864 | 102.4 | 8.523 | 1.16 | 03/06/2023 |
| Sodium | | 0.050 | | **53.5** | 2.500 | 51.50 | 79.6 | 54.12 | 1.17 | 03/03/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 203468 **SampType:** MBLK Units **mg/L**
SampID: MBLK-203468

| 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 | 03/03/2023 |
| Magnesium | | 0.050 | | **< 0.050** | 0.0055 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Sodium | | 0.050 | | **< 0.050** | 0.0180 | 0 | 0 | -100 | 100 | 03/03/2023 |

**Batch** 203468 **SampType:** LCS Units **mg/L**
SampID: LCS-203468

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.66** | 2.500 | 0 | 106.5 | 85 | 115 | 03/03/2023 |
| Magnesium | | 0.050 | | **2.62** | 2.500 | 0 | 104.6 | 85 | 115 | 03/03/2023 |
| Potassium | | 0.100 | | **2.56** | 2.500 | 0 | 102.4 | 85 | 115 | 03/06/2023 |
| Sodium | | 0.050 | | **2.50** | 2.500 | 0 | 100.1 | 85 | 115 | 03/03/2023 |

**Batch** 203468 **SampType:** MS Units **mg/L**
SampID: 23020845-032CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **96.7** | 2.500 | 89.90 | 270.4 | 75 | 125 | 03/03/2023 |
| Magnesium | | 0.050 | S | **35.0** | 2.500 | 31.33 | 146.4 | 75 | 125 | 03/03/2023 |
| Potassium | | 0.500 | | **11.4** | 2.500 | 8.785 | 105.6 | 75 | 125 | 03/06/2023 |
| Sodium | | 0.050 | S | **50.2** | 2.500 | 45.92 | 173.2 | 75 | 125 | 03/03/2023 |

**Batch** 203468 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23020845-032CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **97.7** | 2.500 | 89.90 | 312.4 | 96.66 | 1.08 | 03/03/2023 |
| Magnesium | | 0.050 | S | **35.4** | 2.500 | 31.33 | 164.0 | 34.99 | 1.25 | 03/03/2023 |
| Potassium | | 0.500 | | **11.1** | 2.500 | 8.785 | 91.6 | 11.42 | 3.11 | 03/06/2023 |
| Sodium | | 0.050 | S | **51.0** | 2.500 | 45.92 | 204.4 | 50.25 | 1.54 | 03/03/2023 |

**Batch** 203468 **SampType:** MS Units **mg/L**
SampID: 23020845-043BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **110** | 2.500 | 105.8 | 168.0 | 75 | 125 | 03/03/2023 |
| Magnesium | | 0.050 | | **2.90** | 2.500 | 0.2942 | 104.3 | 75 | 125 | 03/03/2023 |
| Potassium | | 1.00 | | **28.0** | 2.500 | 25.07 | 117.6 | 75 | 125 | 03/06/2023 |
| Sodium | | 0.050 | S | **123** | 2.500 | 118.6 | 188.0 | 75 | 125 | 03/03/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 203468 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23020845-043BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **110** | 2.500 | 105.8 | 180.0 | 110.0 | 0.27 | 03/03/2023 |
| Magnesium | | 0.050 | | **2.88** | 2.500 | 0.2942 | 103.4 | 2.901 | 0.80 | 03/03/2023 |
| Potassium | | 1.00 | | **27.0** | 2.500 | 25.07 | 79.2 | 28.01 | 3.49 | 03/06/2023 |
| Sodium | | 0.050 | S | **124** | 2.500 | 118.6 | 208.0 | 123.3 | 0.40 | 03/03/2023 |

**Batch** 203617 **SampType:** MBLK Units **mg/L**

SampID: MBLK-203617

| 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 | 03/08/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 03/08/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 03/08/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 03/08/2023 |

**Batch** 203617 **SampType:** LCS Units **mg/L**

SampID: LCS-203617

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | | **2.59** | 2.500 | 0 | 103.6 | 85 | 115 | 03/08/2023 |
| Magnesium | | 0.0500 | | **2.59** | 2.500 | 0 | 103.7 | 85 | 115 | 03/08/2023 |
| Potassium | | 0.100 | | **2.55** | 2.500 | 0 | 102.0 | 85 | 115 | 03/08/2023 |
| Sodium | | 0.0500 | | **2.42** | 2.500 | 0 | 96.7 | 85 | 115 | 03/08/2023 |

**Batch** 203617 **SampType:** MS Units **mg/L**

SampID: 23020845-023BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **92.6** | 2.500 | 87.27 | 215.2 | 75 | 125 | 03/08/2023 |
| Magnesium | | 0.050 | S | **35.0** | 2.500 | 29.46 | 220.0 | 75 | 125 | 03/08/2023 |
| Sodium | | 0.050 | S | **55.6** | 2.500 | 50.52 | 204.4 | 75 | 125 | 03/08/2023 |

**Batch** 203617 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23020845-023BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | | 0.100 | S | **92.6** | 2.500 | 87.27 | 215.2 | 92.65 | 0.00 | 03/08/2023 |
| Magnesium | | 0.050 | S | **34.9** | 2.500 | 29.46 | 216.0 | 34.96 | 0.29 | 03/08/2023 |
| Sodium | | 0.050 | S | **55.9** | 2.500 | 50.52 | 216.0 | 55.63 | 0.52 | 03/08/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203472 **SampType:** MBLK Units **µg/L**

SampID: MBLK-203472

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **< 25.0** | 12.50 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Antimony | | 1.0 | | **< 1.0** | 0.4500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Arsenic | | 1.0 | | **< 1.0** | 0.3750 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Barium | | 1.0 | | **< 1.0** | 0.7000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Beryllium | | 1.0 | | **< 1.0** | 0.2500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Boron | | 25.0 | | **< 25.0** | 9.250 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Cadmium | | 1.0 | | **< 1.0** | 0.1340 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Chromium | | 1.5 | | **< 1.5** | 0.7000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Cobalt | | 1.0 | | **< 1.0** | 0.1150 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Copper | | 1.0 | | **< 1.0** | 0.3000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Iron | | 25.0 | | **< 25.0** | 11.50 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Lead | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Manganese | | 2.0 | | **< 2.0** | 0.7500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Molybdenum | | 1.5 | | **< 1.5** | 0.6000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Nickel | | 1.0 | | **< 1.0** | 0.4300 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Selenium | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Silver | | 1.0 | | **< 1.0** | 0.1000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Thallium | | 2.0 | | **< 2.0** | 0.9500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Vanadium | | 5.0 | | **< 5.0** | 5.000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Zinc | | 15.0 | | **< 15.0** | 5.900 | 0 | 0 | -100 | 100 | 03/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203472 **SampType:** LCS Units **µg/L**
SampID: LCS-203472

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **1750** | 2000 | 0 | 87.7 | 80 | 120 | 03/03/2023 |
| Antimony | | 1.0 | | **542** | 500.0 | 0 | 108.4 | 80 | 120 | 03/02/2023 |
| Arsenic | | 1.0 | | **555** | 500.0 | 0 | 111.1 | 80 | 120 | 03/02/2023 |
| Barium | | 1.0 | | **2270** | 2000 | 0 | 113.3 | 80 | 120 | 03/02/2023 |
| Beryllium | | 1.0 | | **53.8** | 50.00 | 0 | 107.7 | 80 | 120 | 03/02/2023 |
| Boron | | 25.0 | | **550** | 500.0 | 0 | 109.9 | 80 | 120 | 03/02/2023 |
| Cadmium | | 1.0 | | **54.4** | 50.00 | 0 | 108.7 | 80 | 120 | 03/02/2023 |
| Chromium | | 1.5 | | **223** | 200.0 | 0 | 111.6 | 80 | 120 | 03/02/2023 |
| Cobalt | | 1.0 | | **572** | 500.0 | 0 | 114.3 | 80 | 120 | 03/02/2023 |
| Copper | | 1.0 | | **292** | 250.0 | 0 | 116.8 | 80 | 120 | 03/02/2023 |
| Iron | | 25.0 | | **2260** | 2000 | 0 | 113.0 | 80 | 120 | 03/02/2023 |
| Lead | | 1.0 | | **559** | 500.0 | 0 | 111.8 | 80 | 120 | 03/02/2023 |
| Manganese | | 2.0 | | **559** | 500.0 | 0 | 111.8 | 80 | 120 | 03/02/2023 |
| Molybdenum | | 1.5 | | **538** | 500.0 | 0 | 107.5 | 80 | 120 | 03/02/2023 |
| Nickel | | 1.0 | | **572** | 500.0 | 0 | 114.4 | 80 | 120 | 03/02/2023 |
| Selenium | | 1.0 | | **515** | 500.0 | 0 | 103.1 | 80 | 120 | 03/02/2023 |
| Silver | | 1.0 | | **58.9** | 50.00 | 0 | 117.9 | 80 | 120 | 03/02/2023 |
| Thallium | | 2.0 | | **276** | 250.0 | 0 | 110.6 | 80 | 120 | 03/02/2023 |
| Vanadium | | 5.0 | | **544** | 500.0 | 0 | 108.8 | 80 | 120 | 03/02/2023 |
| Zinc | | 15.0 | | **531** | 500.0 | 0 | 106.2 | 80 | 120 | 03/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203472 **SampType:** MS Units **µg/L**
SampID: 23020845-005DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **1710** | 2000 | 0 | 85.7 | 75 | 125 | 03/03/2023 |
| Antimony | | 1.0 | | **590** | 500.0 | 0.5607 | 117.9 | 75 | 125 | 03/02/2023 |
| Arsenic | | 1.0 | | **600** | 500.0 | 0 | 119.9 | 75 | 125 | 03/02/2023 |
| Barium | | 1.0 | | **1840** | 2000 | 49.50 | 89.5 | 75 | 125 | 03/03/2023 |
| Beryllium | | 1.0 | | **45.4** | 50.00 | 0 | 90.8 | 75 | 125 | 03/03/2023 |
| Boron | | 25.0 | | **646** | 500.0 | 175.6 | 94.0 | 75 | 125 | 03/06/2023 |
| Cadmium | | 1.0 | | **58.9** | 50.00 | 0 | 117.7 | 75 | 125 | 03/02/2023 |
| Chromium | | 1.5 | | **177** | 200.0 | 0 | 88.5 | 75 | 125 | 03/03/2023 |
| Cobalt | | 1.0 | | **572** | 500.0 | 0 | 114.4 | 75 | 125 | 03/02/2023 |
| Copper | | 1.0 | | **286** | 250.0 | 0.7983 | 114.1 | 75 | 125 | 03/02/2023 |
| Iron | | 25.0 | | **1790** | 2000 | 0 | 89.7 | 75 | 125 | 03/03/2023 |
| Lead | | 1.0 | | **592** | 500.0 | 0 | 118.4 | 75 | 125 | 03/02/2023 |
| Manganese | | 2.0 | | **579** | 500.0 | 0 | 115.9 | 75 | 125 | 03/02/2023 |
| Molybdenum | | 1.5 | | **611** | 500.0 | 19.68 | 118.3 | 75 | 125 | 03/02/2023 |
| Nickel | | 1.0 | | **573** | 500.0 | 0.7214 | 114.4 | 75 | 125 | 03/02/2023 |
| Selenium | | 1.0 | | **560** | 500.0 | 0.7404 | 111.9 | 75 | 125 | 03/02/2023 |
| Silver | | 1.0 | | **59.8** | 50.00 | 0 | 119.5 | 75 | 125 | 03/02/2023 |
| Thallium | | 2.0 | | **224** | 250.0 | 0 | 89.5 | 75 | 125 | 03/03/2023 |
| Zinc | | 15.0 | | **561** | 500.0 | 0 | 112.1 | 75 | 125 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203472 **SampType:** MSD Units µg/L RPD Limit: 20

SampID: 23020845-005DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **1830** | 2000 | 0 | 91.6 | 1714 | 6.73 | 03/03/2023 |
| Antimony | | 1.0 | | **490** | 500.0 | 0.5607 | 97.8 | 590.1 | 18.57 | 03/02/2023 |
| Arsenic | | 1.0 | | **505** | 500.0 | 0 | 101.0 | 599.6 | 17.11 | 03/02/2023 |
| Barium | | 1.0 | | **1920** | 2000 | 49.50 | 93.8 | 1839 | 4.59 | 03/03/2023 |
| Beryllium | | 1.0 | | **48.5** | 50.00 | 0 | 97.0 | 45.41 | 6.61 | 03/03/2023 |
| Boron | | 25.0 | | **698** | 500.0 | 175.6 | 104.4 | 645.7 | 7.76 | 03/06/2023 |
| Cadmium | | 1.0 | | **48.4** | 50.00 | 0 | 96.7 | 58.87 | 19.62 | 03/02/2023 |
| Chromium | | 1.5 | | **189** | 200.0 | 0 | 94.6 | 177.0 | 6.60 | 03/03/2023 |
| Cobalt | | 1.0 | | **478** | 500.0 | 0 | 95.6 | 571.9 | 17.89 | 03/02/2023 |
| Copper | | 1.0 | | **240** | 250.0 | 0.7983 | 95.6 | 286.1 | 17.60 | 03/02/2023 |
| Iron | | 25.0 | | **1900** | 2000 | 0 | 94.9 | 1794 | 5.66 | 03/03/2023 |
| Lead | | 1.0 | | **490** | 500.0 | 0 | 98.0 | 592.1 | 18.87 | 03/02/2023 |
| Manganese | | 2.0 | | **481** | 500.0 | 0 | 96.1 | 579.4 | 18.64 | 03/02/2023 |
| Molybdenum | | 1.5 | | **505** | 500.0 | 19.68 | 97.1 | 611.1 | 18.95 | 03/02/2023 |
| Nickel | | 1.0 | | **473** | 500.0 | 0.7214 | 94.5 | 572.8 | 19.08 | 03/02/2023 |
| Selenium | | 1.0 | | **466** | 500.0 | 0.7404 | 93.1 | 560.2 | 18.29 | 03/02/2023 |
| Silver | | 1.0 | | **50.4** | 50.00 | 0 | 100.8 | 59.77 | 17.03 | 03/02/2023 |
| Thallium | | 2.0 | | **243** | 250.0 | 0 | 97.0 | 223.7 | 8.08 | 03/03/2023 |
| Zinc | | 15.0 | | **466** | 500.0 | 0 | 93.1 | 560.6 | 18.50 | 03/02/2023 |

**Batch** 203472 **SampType:** MS Units µg/L

SampID: 23020845-025DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **1930** | 500.0 | 1517 | 82.5 | 75 | 125 | 03/07/2023 |

**Batch** 203472 **SampType:** MSD Units µg/L RPD Limit: 20

SampID: 23020845-025DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **1900** | 500.0 | 1517 | 76.1 | 1929 | 1.67 | 03/07/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203473 **SampType:** MBLK Units **µg/L**

SampID: MBLK-203473

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **< 25.0** | 12.50 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Antimony | | 1.0 | | **< 1.0** | 0.4500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Arsenic | | 1.0 | | **< 1.0** | 0.3750 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Barium | | 1.0 | | **< 1.0** | 0.7000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Beryllium | | 1.0 | | **< 1.0** | 0.2500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Boron | | 25.0 | | **< 25.0** | 9.250 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Cadmium | | 1.0 | | **< 1.0** | 0.1340 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Chromium | | 1.5 | | **< 1.5** | 0.7000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Cobalt | | 1.0 | | **< 1.0** | 0.1150 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Copper | | 1.0 | | **< 1.0** | 0.3000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Iron | | 25.0 | | **< 25.0** | 11.50 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Lead | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Manganese | | 2.0 | | **< 2.0** | 0.7500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Molybdenum | | 1.5 | | **< 1.5** | 0.6000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Nickel | | 1.0 | | **< 1.0** | 0.4300 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Selenium | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Silver | | 1.0 | | **< 1.0** | 0.1000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Thallium | | 2.0 | | **< 2.0** | 0.9500 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Vanadium | | 5.0 | | **< 5.0** | 5.000 | 0 | 0 | -100 | 100 | 03/02/2023 |
| Zinc | | 15.0 | | **< 15.0** | 5.900 | 0 | 0 | -100 | 100 | 03/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203473 **SampType:** LCS Units **µg/L**
SampID: LCS-203473

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **2060** | 2000 | 0 | 103.0 | 80 | 120 | 03/03/2023 |
| Antimony | | 1.0 | | **502** | 500.0 | 0 | 100.5 | 80 | 120 | 03/03/2023 |
| Arsenic | | 1.0 | | **488** | 500.0 | 0 | 97.6 | 80 | 120 | 03/03/2023 |
| Barium | | 1.0 | | **2130** | 2000 | 0 | 106.4 | 80 | 120 | 03/03/2023 |
| Beryllium | | 1.0 | | **52.1** | 50.00 | 0 | 104.2 | 80 | 120 | 03/03/2023 |
| Boron | | 25.0 | | **501** | 500.0 | 0 | 100.3 | 80 | 120 | 03/03/2023 |
| Cadmium | | 1.0 | | **52.0** | 50.00 | 0 | 104.0 | 80 | 120 | 03/03/2023 |
| Chromium | | 1.5 | | **214** | 200.0 | 0 | 107.0 | 80 | 120 | 03/03/2023 |
| Cobalt | | 1.0 | | **543** | 500.0 | 0 | 108.6 | 80 | 120 | 03/03/2023 |
| Copper | | 1.0 | | **275** | 250.0 | 0 | 110.0 | 80 | 120 | 03/03/2023 |
| Iron | | 25.0 | | **2160** | 2000 | 0 | 108.0 | 80 | 120 | 03/03/2023 |
| Lead | | 1.0 | | **529** | 500.0 | 0 | 105.7 | 80 | 120 | 03/03/2023 |
| Manganese | | 2.0 | | **533** | 500.0 | 0 | 106.7 | 80 | 120 | 03/03/2023 |
| Molybdenum | | 1.5 | | **517** | 500.0 | 0 | 103.4 | 80 | 120 | 03/03/2023 |
| Nickel | | 1.0 | | **538** | 500.0 | 0 | 107.7 | 80 | 120 | 03/03/2023 |
| Selenium | | 1.0 | | **473** | 500.0 | 0 | 94.6 | 80 | 120 | 03/03/2023 |
| Silver | | 1.0 | | **52.3** | 50.00 | 0 | 104.5 | 80 | 120 | 03/03/2023 |
| Thallium | | 2.0 | | **244** | 250.0 | 0 | 97.4 | 80 | 120 | 03/03/2023 |
| Vanadium | | 5.0 | | **523** | 500.0 | 0 | 104.7 | 80 | 120 | 03/03/2023 |
| Zinc | | 15.0 | | **462** | 500.0 | 0 | 92.3 | 80 | 120 | 03/03/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203473 **SampType:** MS Units **µg/L**
SampID: 23020845-035EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 1.0 | | **407** | 500.0 | 0 | 81.3 | 75 | 125 | 03/03/2023 |
| Arsenic | | 1.0 | | **442** | 500.0 | 0.5053 | 88.2 | 75 | 125 | 03/03/2023 |
| Barium | | 1.0 | | **1740** | 2000 | 46.25 | 84.8 | 75 | 125 | 03/03/2023 |
| Beryllium | | 1.0 | | **42.5** | 50.00 | 0 | 85.0 | 75 | 125 | 03/03/2023 |
| Boron | | 25.0 | | **3200** | 500.0 | 2627 | 114.2 | 75 | 125 | 03/02/2023 |
| Cadmium | | 1.0 | | **41.9** | 50.00 | 0 | 83.8 | 75 | 125 | 03/03/2023 |
| Chromium | | 1.5 | | **168** | 200.0 | 0.8898 | 83.5 | 75 | 125 | 03/03/2023 |
| Cobalt | | 1.0 | | **423** | 500.0 | 0.1224 | 84.5 | 75 | 125 | 03/03/2023 |
| Copper | | 1.0 | | **211** | 250.0 | 0.8759 | 84.1 | 75 | 125 | 03/03/2023 |
| Iron | | 25.0 | | **1720** | 2000 | 0 | 86.0 | 75 | 125 | 03/03/2023 |
| Lead | | 1.0 | | **439** | 500.0 | 0 | 87.7 | 75 | 125 | 03/03/2023 |
| Manganese | | 2.0 | | **427** | 500.0 | 2.474 | 85.0 | 75 | 125 | 03/03/2023 |
| Nickel | | 1.0 | | **415** | 500.0 | 0.9686 | 82.7 | 75 | 125 | 03/03/2023 |
| Selenium | | 1.0 | | **635** | 500.0 | 18.35 | 123.4 | 75 | 125 | 03/02/2023 |
| Silver | | 1.0 | | **42.8** | 50.00 | 0 | 85.7 | 75 | 125 | 03/03/2023 |
| Thallium | | 2.0 | | **219** | 250.0 | 0 | 87.4 | 75 | 125 | 03/03/2023 |
| Vanadium | | 5.0 | | **428** | 500.0 | 6.704 | 84.2 | 75 | 125 | 03/03/2023 |
| Zinc | | 15.0 | | **619** | 500.0 | 0 | 123.8 | 75 | 125 | 03/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203473 **SampType:** MSD Units **µg/L** RPD Limit: **20**
SampID: 23020845-035EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 1.0 | | **421** | 500.0 | 0 | 84.1 | 406.6 | 3.38 | 03/03/2023 |
| Arsenic | | 1.0 | | **441** | 500.0 | 0.5053 | 88.2 | 441.6 | 0.05 | 03/03/2023 |
| Barium | | 1.0 | | **1770** | 2000 | 46.25 | 86.1 | 1743 | 1.51 | 03/03/2023 |
| Beryllium | | 1.0 | | **42.1** | 50.00 | 0 | 84.1 | 42.49 | 1.00 | 03/03/2023 |
| Boron | | 25.0 | | **3180** | 500.0 | 2627 | 110.8 | 3198 | 0.53 | 03/02/2023 |
| Cadmium | | 1.0 | | **42.1** | 50.00 | 0 | 84.1 | 41.89 | 0.39 | 03/03/2023 |
| Chromium | | 1.5 | | **169** | 200.0 | 0.8898 | 83.9 | 167.8 | 0.54 | 03/03/2023 |
| Cobalt | | 1.0 | | **419** | 500.0 | 0.1224 | 83.9 | 422.8 | 0.81 | 03/03/2023 |
| Copper | | 1.0 | | **210** | 250.0 | 0.8759 | 83.8 | 211.0 | 0.32 | 03/03/2023 |
| Iron | | 25.0 | | **1710** | 2000 | 0 | 85.6 | 1720 | 0.49 | 03/03/2023 |
| Lead | | 1.0 | | **437** | 500.0 | 0 | 87.3 | 438.6 | 0.47 | 03/03/2023 |
| Manganese | | 2.0 | | **425** | 500.0 | 2.474 | 84.5 | 427.3 | 0.59 | 03/03/2023 |
| Nickel | | 1.0 | | **413** | 500.0 | 0.9686 | 82.3 | 414.7 | 0.49 | 03/03/2023 |
| Selenium | | 1.0 | | **634** | 500.0 | 18.35 | 123.2 | 635.4 | 0.17 | 03/02/2023 |
| Silver | | 1.0 | | **43.2** | 50.00 | 0 | 86.5 | 42.84 | 0.94 | 03/03/2023 |
| Thallium | | 2.0 | | **215** | 250.0 | 0 | 86.0 | 218.6 | 1.61 | 03/03/2023 |
| Vanadium | | 5.0 | | **425** | 500.0 | 6.704 | 83.7 | 427.7 | 0.56 | 03/03/2023 |
| Zinc | | 15.0 | S | **626** | 500.0 | 0 | 125.1 | 618.9 | 1.08 | 03/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203473 **SampType:** MS Units **µg/L**

SampID: 23020845-051EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **1820** | 2000 | 0 | 90.9 | 75 | 125 | 03/03/2023 |
| Antimony | | 1.0 | | **462** | 500.0 | 0 | 92.4 | 75 | 125 | 03/03/2023 |
| Arsenic | | 1.0 | | **490** | 500.0 | 0 | 98.1 | 75 | 125 | 03/02/2023 |
| Barium | | 1.0 | | **1930** | 2000 | 0 | 96.3 | 75 | 125 | 03/03/2023 |
| Beryllium | | 1.0 | | **48.6** | 50.00 | 0 | 97.2 | 75 | 125 | 03/02/2023 |
| Boron | | 25.0 | | **504** | 500.0 | 0 | 100.9 | 75 | 125 | 03/02/2023 |
| Cadmium | | 1.0 | | **46.6** | 50.00 | 0 | 93.1 | 75 | 125 | 03/03/2023 |
| Chromium | | 1.5 | | **202** | 200.0 | 1.653 | 100.0 | 75 | 125 | 03/02/2023 |
| Cobalt | | 1.0 | | **478** | 500.0 | 0 | 95.6 | 75 | 125 | 03/03/2023 |
| Copper | | 1.0 | | **255** | 250.0 | 1.672 | 101.4 | 75 | 125 | 03/02/2023 |
| Iron | | 25.0 | | **1930** | 2000 | 17.63 | 95.5 | 75 | 125 | 03/03/2023 |
| Lead | | 1.0 | | **500** | 500.0 | 0 | 100.1 | 75 | 125 | 03/02/2023 |
| Manganese | | 2.0 | | **496** | 500.0 | 0 | 99.2 | 75 | 125 | 03/02/2023 |
| Molybdenum | | 1.5 | | **464** | 500.0 | 0 | 92.8 | 75 | 125 | 03/03/2023 |
| Nickel | | 1.0 | | **494** | 500.0 | 0 | 98.8 | 75 | 125 | 03/02/2023 |
| Selenium | | 1.0 | | **464** | 500.0 | 0 | 92.7 | 75 | 125 | 03/02/2023 |
| Silver | | 1.0 | | **48.1** | 50.00 | 0 | 96.2 | 75 | 125 | 03/03/2023 |
| Thallium | | 2.0 | | **246** | 250.0 | 0 | 98.3 | 75 | 125 | 03/02/2023 |
| Vanadium | | 5.0 | | **477** | 500.0 | 0 | 95.3 | 75 | 125 | 03/02/2023 |
| Zinc | | 15.0 | | **484** | 500.0 | 0 | 96.9 | 75 | 125 | 03/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 203473 **SampType:** MSD Units µg/L RPD Limit: 20
SampID: 23020845-051EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 25.0 | | **1760** | 2000 | 0 | 88.1 | 1818 | 3.10 | 03/03/2023 |
| Antimony | | 1.0 | | **456** | 500.0 | 0 | 91.2 | 462.1 | 1.29 | 03/03/2023 |
| Arsenic | | 1.0 | | **589** | 500.0 | 0 | 117.8 | 490.3 | 18.30 | 03/02/2023 |
| Barium | | 1.0 | | **1910** | 2000 | 0 | 95.4 | 1926 | 0.99 | 03/03/2023 |
| Beryllium | | 1.0 | | **59.3** | 50.00 | 0 | 118.7 | 48.59 | 19.92 | 03/02/2023 |
| Boron | | 25.0 | | **594** | 500.0 | 0 | 118.8 | 504.4 | 16.28 | 03/02/2023 |
| Cadmium | | 1.0 | | **46.0** | 50.00 | 0 | 92.1 | 46.56 | 1.13 | 03/03/2023 |
| Chromium | | 1.5 | | **239** | 200.0 | 1.653 | 118.6 | 201.7 | 16.83 | 03/02/2023 |
| Cobalt | | 1.0 | | **464** | 500.0 | 0 | 92.9 | 478.1 | 2.92 | 03/03/2023 |
| Copper | | 1.0 | | **308** | 250.0 | 1.672 | 122.6 | 255.2 | 18.83 | 03/02/2023 |
| Iron | | 25.0 | | **1880** | 2000 | 17.63 | 93.3 | 1928 | 2.33 | 03/03/2023 |
| Lead | | 1.0 | | **604** | 500.0 | 0 | 120.8 | 500.4 | 18.76 | 03/02/2023 |
| Manganese | | 2.0 | | **599** | 500.0 | 0 | 119.9 | 496.2 | 18.82 | 03/02/2023 |
| Molybdenum | | 1.5 | | **458** | 500.0 | 0 | 91.6 | 463.8 | 1.22 | 03/03/2023 |
| Nickel | | 1.0 | | **598** | 500.0 | 0 | 119.6 | 494.0 | 19.06 | 03/02/2023 |
| Selenium | | 1.0 | | **551** | 500.0 | 0 | 110.2 | 463.7 | 17.20 | 03/02/2023 |
| Silver | | 1.0 | | **48.2** | 50.00 | 0 | 96.4 | 48.12 | 0.20 | 03/03/2023 |
| Thallium | | 2.0 | | **292** | 250.0 | 0 | 116.6 | 245.7 | 17.06 | 03/02/2023 |
| Vanadium | | 5.0 | | **578** | 500.0 | 0 | 115.5 | 476.7 | 19.16 | 03/02/2023 |
| Zinc | | 15.0 | | **584** | 500.0 | 0 | 116.8 | 484.3 | 18.67 | 03/02/2023 |

**Batch** 204110 **SampType:** MBLK Units µg/L
SampID: MBLK-204110

| 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 | 03/22/2023 |
| Cobalt | | 1.0 | | **< 1.0** | 0.1150 | 0 | 0 | -100 | 100 | 03/22/2023 |

**Batch** 204110 **SampType:** LCS Units µg/L
SampID: LCS-204110

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **481** | 500.0 | 0 | 96.2 | 80 | 120 | 03/22/2023 |
| Cobalt | | 1.0 | | **485** | 500.0 | 0 | 97.1 | 80 | 120 | 03/22/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 204110 **SampType:** MS Units **µg/L**

SampID: 23020845-019DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | S | **8520** | 500.0 | 8393 | 25.9 | 75 | 125 | 03/22/2023 |

**Batch** 204110 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23020845-019DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | S | **8570** | 500.0 | 8393 | 35.3 | 8522 | 0.55 | 03/22/2023 |

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 203466 **SampType:** MBLK Units **µg/L**

SampID: MBLK-203466

| 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 | 03/03/2023 |
| Arsenic | | 1.0 | | **< 1.0** | 0.3750 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Barium | | 1.0 | | **< 1.0** | 0.7000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Beryllium | | 1.0 | | **< 1.0** | 0.2500 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Boron | | 25.0 | | **< 25.0** | 9.250 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Cadmium | | 1.0 | | **< 1.0** | 0.1340 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Chromium | | 1.5 | | **< 1.5** | 0.7000 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Cobalt | | 1.0 | | **< 1.0** | 0.1150 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Lead | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Lithium | * | 3.0 | | **< 3.0** | 1.450 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Molybdenum | | 1.5 | | **< 1.5** | 0.6000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Selenium | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Thallium | | 2.0 | | **< 2.0** | 0.9500 | 0 | 0 | -100 | 100 | 03/03/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 203466 **SampType:** LCS Units µg/L

SampID: LCS-203466

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 1.0 | | **494** | 500.0 | 0 | 98.9 | 80 | 120 | 03/03/2023 |
| Arsenic | | 1.0 | | **480** | 500.0 | 0 | 96.0 | 80 | 120 | 03/03/2023 |
| Barium | | 1.0 | | **2100** | 2000 | 0 | 104.8 | 80 | 120 | 03/03/2023 |
| Beryllium | | 1.0 | | **51.2** | 50.00 | 0 | 102.3 | 80 | 120 | 03/06/2023 |
| Boron | | 25.0 | | **518** | 500.0 | 0 | 103.6 | 80 | 120 | 03/06/2023 |
| Cadmium | | 1.0 | | **56.3** | 50.00 | 0 | 112.5 | 80 | 120 | 03/03/2023 |
| Chromium | | 1.5 | | **206** | 200.0 | 0 | 103.2 | 80 | 120 | 03/06/2023 |
| Cobalt | | 1.0 | | **494** | 500.0 | 0 | 98.8 | 80 | 120 | 03/03/2023 |
| Lead | | 1.0 | | **489** | 500.0 | 0 | 97.7 | 80 | 120 | 03/03/2023 |
| Lithium | * | 3.0 | | **574** | 500.0 | 0 | 114.7 | 80 | 120 | 03/06/2023 |
| Molybdenum | | 1.5 | | **505** | 500.0 | 0 | 101.1 | 80 | 120 | 03/03/2023 |
| Selenium | | 1.0 | | **448** | 500.0 | 0 | 89.5 | 80 | 120 | 03/03/2023 |
| Thallium | | 2.0 | | **243** | 250.0 | 0 | 97.0 | 80 | 120 | 03/03/2023 |

**Batch** 203466 **SampType:** MS Units µg/L

SampID: 23020845-007CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 1.0 | | **505** | 500.0 | 0 | 101.1 | 75 | 125 | 03/03/2023 |
| Arsenic | | 1.0 | | **498** | 500.0 | 0 | 99.7 | 75 | 125 | 03/03/2023 |
| Barium | | 1.0 | | **2240** | 2000 | 116.6 | 106.3 | 75 | 125 | 03/03/2023 |
| Beryllium | | 1.0 | | **52.7** | 50.00 | 0 | 105.5 | 75 | 125 | 03/06/2023 |
| Boron | | 25.0 | | **738** | 500.0 | 207.3 | 106.2 | 75 | 125 | 03/06/2023 |
| Cadmium | | 1.0 | | **55.5** | 50.00 | 0 | 111.0 | 75 | 125 | 03/03/2023 |
| Chromium | | 1.5 | | **203** | 200.0 | 0 | 101.4 | 75 | 125 | 03/06/2023 |
| Cobalt | | 1.0 | | **487** | 500.0 | 0.1439 | 97.3 | 75 | 125 | 03/03/2023 |
| Lead | | 1.0 | | **505** | 500.0 | 0 | 101.0 | 75 | 125 | 03/03/2023 |
| Lithium | * | 3.0 | | **607** | 500.0 | 7.654 | 119.8 | 75 | 125 | 03/06/2023 |
| Molybdenum | | 1.5 | | **505** | 500.0 | 9.996 | 99.1 | 75 | 125 | 03/03/2023 |
| Selenium | | 1.0 | | **461** | 500.0 | 0 | 92.2 | 75 | 125 | 03/03/2023 |
| Thallium | | 2.0 | | **248** | 250.0 | 0 | 99.2 | 75 | 125 | 03/03/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 203466 **SampType:** MSD Units **µg/L** RPD Limit: **20**

SampID: 23020845-007CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 1.0 | | **508** | 500.0 | 0 | 101.7 | 505.4 | 0.60 | 03/03/2023 |
| Arsenic | | 1.0 | | **503** | 500.0 | 0 | 100.6 | 498.4 | 0.93 | 03/03/2023 |
| Barium | | 1.0 | | **2250** | 2000 | 116.6 | 106.7 | 2242 | 0.40 | 03/03/2023 |
| Beryllium | | 1.0 | | **53.0** | 50.00 | 0 | 105.9 | 52.73 | 0.46 | 03/06/2023 |
| Boron | | 25.0 | | **752** | 500.0 | 207.3 | 108.8 | 738.3 | 1.78 | 03/06/2023 |
| Cadmium | | 1.0 | | **56.6** | 50.00 | 0 | 113.2 | 55.51 | 1.96 | 03/03/2023 |
| Chromium | | 1.5 | | **202** | 200.0 | 0 | 100.9 | 202.8 | 0.51 | 03/06/2023 |
| Cobalt | | 1.0 | | **505** | 500.0 | 0.1439 | 101.0 | 486.7 | 3.76 | 03/03/2023 |
| Lead | | 1.0 | | **514** | 500.0 | 0 | 102.7 | 504.9 | 1.72 | 03/03/2023 |
| Lithium | * | 3.0 | | **605** | 500.0 | 7.654 | 119.5 | 606.8 | 0.30 | 03/06/2023 |
| Molybdenum | | 1.5 | | **528** | 500.0 | 9.996 | 103.7 | 505.5 | 4.42 | 03/03/2023 |
| Selenium | | 1.0 | | **466** | 500.0 | 0 | 93.1 | 461.0 | 0.98 | 03/03/2023 |
| Thallium | | 2.0 | | **250** | 250.0 | 0 | 99.9 | 247.9 | 0.72 | 03/03/2023 |

**Batch** 203468 **SampType:** MBLK Units **µg/L**

SampID: MBLK-203468

| 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 | 03/03/2023 |
| Arsenic | | 1.0 | | **< 1.0** | 0.3750 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Barium | | 1.0 | | **< 1.0** | 0.7000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Beryllium | | 1.0 | | **< 1.0** | 0.2500 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Boron | | 25.0 | | **< 25.0** | 9.250 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Cadmium | | 1.0 | | **< 1.0** | 0.1340 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Chromium | | 1.5 | | **< 1.5** | 0.7000 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Cobalt | | 1.0 | | **< 1.0** | 0.1150 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Lead | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Lithium | * | 3.0 | | **< 3.0** | 1.450 | 0 | 0 | -100 | 100 | 03/06/2023 |
| Molybdenum | | 1.5 | | **< 1.5** | 0.6000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Selenium | | 1.0 | | **< 1.0** | 0.6000 | 0 | 0 | -100 | 100 | 03/03/2023 |
| Thallium | | 2.0 | | **< 2.0** | 0.9500 | 0 | 0 | -100 | 100 | 03/03/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 203468 **SampType:** LCS Units µg/L
SampID: LCS-203468

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 1.0 | | **498** | 500.0 | 0 | 99.6 | 80 | 120 | 03/03/2023 |
| Arsenic | | 1.0 | | **497** | 500.0 | 0 | 99.4 | 80 | 120 | 03/03/2023 |
| Barium | | 1.0 | | **2160** | 2000 | 0 | 108.0 | 80 | 120 | 03/03/2023 |
| Beryllium | | 1.0 | | **55.0** | 50.00 | 0 | 109.9 | 80 | 120 | 03/06/2023 |
| Boron | | 25.0 | | **561** | 500.0 | 0 | 112.2 | 80 | 120 | 03/06/2023 |
| Cadmium | | 1.0 | | **56.0** | 50.00 | 0 | 111.9 | 80 | 120 | 03/03/2023 |
| Chromium | | 1.5 | | **218** | 200.0 | 0 | 109.2 | 80 | 120 | 03/06/2023 |
| Cobalt | | 1.0 | | **516** | 500.0 | 0 | 103.2 | 80 | 120 | 03/03/2023 |
| Lead | | 1.0 | | **491** | 500.0 | 0 | 98.2 | 80 | 120 | 03/03/2023 |
| Lithium | * | 3.0 | | **496** | 500.0 | 0 | 99.2 | 80 | 120 | 03/07/2023 |
| Molybdenum | | 1.5 | | **508** | 500.0 | 0 | 101.7 | 80 | 120 | 03/03/2023 |
| Selenium | | 1.0 | | **460** | 500.0 | 0 | 91.9 | 80 | 120 | 03/03/2023 |
| Thallium | | 2.0 | | **235** | 250.0 | 0 | 93.8 | 80 | 120 | 03/03/2023 |

**Batch** 203617 **SampType:** MBLK Units µg/L
SampID: MBLK-203617

| 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 | 03/08/2023 |

**Batch** 203617 **SampType:** LCS Units µg/L
SampID: LCS-203617

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **516** | 500.0 | 0 | 103.1 | 80 | 120 | 03/08/2023 |

**Batch** 203617 **SampType:** MS Units µg/L
SampID: 23020845-023BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **2450** | 1000 | 1407 | 104.3 | 75 | 125 | 03/08/2023 |

**Batch** 203617 **SampType:** MSD Units µg/L RPD Limit: **20**
SampID: 23020845-023BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **2370** | 1000 | 1407 | 96.3 | 2450 | 3.29 | 03/08/2023 |

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# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 204109 **SampType:** MBLK Units **µg/L**
SampID: MBLK-204109

| 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 | 03/22/2023 |
| Cobalt | | 1.0 | | **< 1.0** | 0.1150 | 0 | 0 | -100 | 100 | 03/22/2023 |

**Batch** 204109 **SampType:** LCS Units **µg/L**
SampID: LCS-204109

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **503** | 500.0 | 0 | 100.5 | 80 | 120 | 03/22/2023 |
| Cobalt | | 1.0 | | **528** | 500.0 | 0 | 105.7 | 80 | 120 | 03/22/2023 |

**Batch** 204109 **SampType:** MS Units **µg/L**
SampID: 23020845-016CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **671** | 500.0 | 198.9 | 94.4 | 75 | 125 | 03/22/2023 |

**Batch** 204109 **SampType:** MSD Units **µg/L** RPD Limit: **20**
SampID: 23020845-016CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Boron | | 25.0 | | **661** | 500.0 | 198.9 | 92.4 | 671.0 | 1.50 | 03/22/2023 |

## SW-846 7470A (DISSOLVED)

**Batch** 203471 **SampType:** MBLK Units **µg/L**
SampID: MBLK-203471

| 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 | 03/03/2023 |

**Batch** 203471 **SampType:** LCS Units **µg/L**
SampID: LCS-203471

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **4.84** | 5.000 | 0 | 96.9 | 85 | 115 | 03/03/2023 |

**Batch** 203471 **SampType:** MS Units **µg/L**
SampID: 23020845-039EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.04** | 5.000 | 0 | 100.7 | 75 | 125 | 03/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23020845

**Client Project:** HEN-23Q1 **Report Date:** 14-Apr-23

## SW-846 7470A (DISSOLVED)

**Batch** 203471 **SampType:** MSD Units µg/L RPD Limit: 15

SampID: 23020845-039EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.08** | 5.000 | 0 | 101.6 | 5.036 | 0.84 | 03/06/2023 |

## SW-846 7470A (TOTAL)

**Batch** 203469 **SampType:** MBLK Units µg/L

SampID: MBLK-203469

| 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 | 03/06/2023 |

**Batch** 203469 **SampType:** LCS Units µg/L

SampID: LCS-203469

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **4.85** | 5.000 | 0 | 97.0 | 85 | 115 | 03/06/2023 |

**Batch** 203469 **SampType:** MS Units µg/L

SampID: 23020845-002DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.24** | 5.000 | 0 | 104.8 | 75 | 125 | 03/06/2023 |

**Batch** 203469 **SampType:** MSD Units µg/L RPD Limit: 15

SampID: 23020845-002DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **4.90** | 5.000 | 0 | 98.1 | 5.239 | 6.62 | 03/06/2023 |

**Batch** 203469 **SampType:** MS Units µg/L

SampID: 23020845-013CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.35** | 5.000 | 0 | 106.9 | 75 | 125 | 03/06/2023 |

**Batch** 203469 **SampType:** MSD Units µg/L RPD Limit: 15

SampID: 23020845-013CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.42** | 5.000 | 0 | 108.3 | 5.346 | 1.30 | 03/06/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

## SW-846 7470A (TOTAL)

**Batch** 203470 **SampType:** MBLK Units µg/L
SampID: MBLK-203470

| 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 | 03/06/2023 |

**Batch** 203470 **SampType:** LCS Units µg/L
SampID: LCS-203470

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.06** | 5.000 | 0 | 101.2 | 85 | 115 | 03/06/2023 |

**Batch** 203470 **SampType:** MS Units µg/L
SampID: 23020845-024CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.46** | 5.000 | 0 | 109.2 | 75 | 125 | 03/06/2023 |

**Batch** 203470 **SampType:** MSD Units µg/L RPD Limit: **15**
SampID: 23020845-024CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.46** | 5.000 | 0 | 109.2 | 5.460 | 0.05 | 03/06/2023 |

**Batch** 203470 **SampType:** MS Units µg/L
SampID: 23020845-036CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.30** | 5.000 | 0 | 106.0 | 75 | 125 | 03/07/2023 |

**Batch** 203470 **SampType:** MSD Units µg/L RPD Limit: **15**
SampID: 23020845-036CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.30** | 5.000 | 0 | 106.0 | 5.300 | 0.05 | 03/07/2023 |

**Batch** 203471 **SampType:** MS Units µg/L
SampID: 23020845-051DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **5.02** | 5.000 | 0 | 100.4 | 75 | 125 | 03/06/2023 |

**Batch** 203471 **SampType:** MSD Units µg/L RPD Limit: **15**
SampID: 23020845-051DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.20 | | **4.90** | 5.000 | 0 | 98.0 | 5.022 | 2.45 | 03/06/2023 |

Teklab, Inc. Environmental Laboratory

# Receiving Check List

http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020845
**Client Project:** HEN-23Q1
**Report Date:** 14-Apr-23

**Carrier:** Joe Riley
**Received By:** ANC

**Completed by:** Lindsey Maddox
**On:** 02-Mar-23

**Reviewed by:** Elizabeth A. Hurley
**On:** 02-Mar-23

**Pages to follow:** Chain of custody 4 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 #87147/79929. - TSM/lmaddox - 3/2/2023 8:53:12 AM

Additional Sodium Hydroxide (81662) was needed in 02, 07, 08, 10, 12, 13, 16, 17, 05R, 08D, 18D, 06, 15, and 08 Duplicate upon arrival at the laboratory. - lmaddox - 3/2/2023 10:13:57 AM

Additional Nitric Acid (87873) was needed in 08D and 08 Duplicate upon arrival at the laboratory. - lmaddox - 3/2/2023 10:15:51 AM

Additional Sulfuric Acid (86787) was needed in 08 upon arrival at the laboratory. - lmaddox - 3/2/2023 10:22:00 AM

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 4

| 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_WPCP_East | HEN_WPCP_West | East Group 1 | East Group 2 | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * — 02 | | | 03/01/23 | 1423 | | | | | | | | | | | | | | | | | | ✓ | | ✓ | | | 23020845-001 |
| 2 | * — 07 | | | 03/01/23 | 1616 | | | | | | | | | | | | ✓ | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | | 002 |
| 3 | * X — 08 | | | 03/01/23 | 1501 | | | | | | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | | 003 |
| 4 | * *TE — 10 | | | 03/01/23 | 0417 | | | | | | | | | | | | | | | | ✓ | | ✓ | | | ✓ | | 004 |
| 5 | * *TE — 12 | | | 03/01/23 | 1046 | | | | | | | | | | | | | | ✓ | | ✓ | | | | | ✓ | | 005 |
| 6 | * *TE — 13 | | | 03/01/23 | 1028 | | | | | | | | | | | | | | ✓ | | ✓ | | | | | ✓ | | 006 |
| 7 | * — 16 | | | 02/25/23 | 1557 | | | | | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | 007 |
| 8 | * — 17 | | | 02/26/23 | 1614 | | | | | | | | | | | | ✓ | | ✓ | | | | | | ✓ | | | 008 |
| 9 | — 22 1128 | | | 02/28/23 | ~~1142~~ | | | | | | | | | | | | | | | ✓ | | | ✓ | | ✓ | | | 009 |
| 10 | — 23 | | | 02/28/23 | 1035 | | | | | | | | | | | | | | | ✓ | | | ✓ | | ✓ | | | 010 |
| 11 | — 25 | | | 02/28/23 | 1435 | | | | | | | | | | | | | | | ✓ | | | ✓ | | | | | 011 |
| 12 | — 26 | | | 02/28/23 | 1436 | | | | | | | | | | | | | | | ✓ | | | ✓ | | | | | 012 |
| 13 | — 27 | | | 02/28/23 | 1347 | | | | | | | | | | | | | | | ✓ | | | ✓ | | ✓ | | | 013 |
| 14 | — 30 | | | 02/28/23 | 1249 | | | | | | | | | | | | | | | ✓ | | | ✓ | | | | | 014 |
| 15 | — 31 | | | 02/28/23 | 1250 | | | | | | | | | | | | | | | ✓ | | | ✓ | | | | | 015 |
| 16 | — 32 | | | 02/28/23 | 1306 | | | | | | | | | | | | | | | ✓ | | | ✓ | | ✓ | | | 016 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| HEN-23Q1 Rev 0 | | 03/01/23 | 0800 | William Colin | 3/2/23 | 800 |
| | | | | | | |

**SAMPLE CONDITIONS**

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 3.2 | Y | N | ~~N~~ Y |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Joe Kidd

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 03/02/23

TE EAH 3/23/23

HS present in FB(213)

* Added $HNO_3$(87873)
* Added NaOH(81662)
x Added $H_2SO_4$(86787)

3.2 #5
PH: 87147/79929 LM TSM 312

# 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_WPCP_East | HEN_WPCP_West | East Group 1 | East Group 2 | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33 | | | 02/28/23 | 1315 | | | | | | | | | | | | | | | | ✓ | | | ✓ | | | | | 23020845-017 |
| 2 | 34 | | | 02/28/23 | 1421 | | | | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | | | | 018 |
| 3 | 35 | | | 02/28/23 | 1233 | | | | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | | | | 019 |
| 4 | 36 | | | 02/28/23 | 1220 | | | | | | | | | | | | | | | | ✓ | | | ✓ | | | | | 020 |
| 5 | 46 | | | 02/28/23 | 1634 | | | | | | | | | | | | | | | ✓ | | | | | | | | | 021 |
| 6 | 47 | | | 03/01/23 | 0937 | | | | | | | | | | | | | | | ✓ | | | | | | | | | 022 |
| 7 | 48 | | | 03/01/23 | 1214 | | | | | | | | | | | | | ✓ | | | | | | | | | | | 023 |
| 8 | 49 | | | 02/28/23 | 1101 | | | | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | | | | 024 |
| 9 | 50 | | | 02/28/23 | 1210 | | | | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | | | | 025 |
| 10 | 51 | | | 02/28/23 | 1003 | | | | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | | | | 026 |
| 11 | 52 | | | 02/28/23 | 1659 | | | | | | | | | | | | | | | ✓ | | | | | | | | | 027 |
| 12 | 54 | | | 03/01/23 | 0959 | | | | | | | | | | | | | | | ✓ | | | | | | | | | 028 |
| 13 | 55 | | | 02/28/23 | 1645 | | | | | | | | | | | | | | | ✓ | | | | | | | | | 029 |
| 14 | 03R | | | 03/01/23 | 1326 | | | | | | | | | | | | | | ✓ | | | | ✓ | | ✓ | | | | 030 |
| 15 | 05DR | | | 03/01/23 | 1257 | | | | | | | | | | | | | ✓ | | | | ✓ | | | | | ✓ | | 031 |
| 16 | 05R | | | 03/01/23 | 1226 | | | | | | | | | | | | | ✓ | | | | ✓ | | | | | ✓ | | 032 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q1 Rev 0 | Tebay | 03/02/23 | 0805 | Allison Colin | 3/2/23 | 800 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Riley

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 03/02/23

| 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:

| | |
|---|---|
| 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_WPCP_East | HEN_WPCP_West | East Group 1 | East Group 2 | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 08D | | | 03/01/23 | 1442 | | | | | | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | | 23020845-033 |
| 2 | 18D | | | 03/01/23 | 1304 | | | | | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | | | 034 |
| 3 | 18S | | | 03/01/23 | 1253 | | | | | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | | | 035 |
| 4 | 21R | | | 02/28/23 | 0915 | | | | | | | | | | | | | | | ✓ | | | ✓ | | ✓ | | | | 036 |
| 5 | 22D | | | 02/28/23 | 1144 | | | | | | | | | | | | | | | ✓ | | | ✓ | | ✓ | | | | 037 |
| 6 | 40S | | | 03/01/23 | 1200 | | | | | | | | | | | | ✓ | | | | | ✓ | | | | | ✓ | | 038 |
| 7 | 45S | | | 03/01/23 | 1350 | | | | | | | | | | | | | ✓ | | | | | ✓ | | ✓ | | | | 039 |
| 8 | SG02 | | | 03/02/23 | 0730 | | 0 | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | 040 |
| 9 | XPW01 | | | 02/28/23 | 1514 | | | | | | | | | | | | | | ✓ | | | | | | | | | | 041 |
| 10 | XPW02 03/01/23 | | | ~~03/05/23~~ | 0813 | | | | | | | | | | | | | | ✓ | | | | | | | | | | 042 |
| 11 | XPW03 | | | 03/01/23 | 1537 | | | | | | | | | | | | | | ✓ | | | | | | | | | | 043 |
| 12 | XSG01 | | | 02/28/23 | 1630 | | 0 | | | | | | | | | | | | ✓ | | | | | | | | | | 044 |
| 13 | 04R | | | 03/02/23 | 1120 | | | | | | | | | | | | | | | | | | | | ✓ | | | | 045 |
| 14 | 06 | | | 03/01/23 | 1408 | | | | | | | | | | | | | | | | | | | | ✓ | | | | 046 |
| 15 | 15 | | | 03/01/23 | 1107 | | | | | | | | | | | | | | | | | | | | ✓ | | | | 047 |
| 16 | 19D | | | 03/01/23 | 1148 | | | | | | | | | | | | | | | | | | | | ✓ | | | | 048 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q1 Rev 0 | Tetra Tech | 03/02/23 | 0800 | Allison Colin | 3/2/23 | 800 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Riley

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 03/02/23

| 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:

| | |
|---|---|
| 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: HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_WPCP_East | HEN_WPCP_West | East Group 1 | East Group 2 | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 19S | | | 03/01/23 | 1134 | | | | | | | | | | | | | | | | | | | | ✓ | | | 23020845-049 |
| 2 | 08 Duplicate | | | 03/01/23 | 1501 | | | | | | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | | ✓ | | | 050 |
| 3 | Field Blank | | | 03/01/23 | 1701 | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 051 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
|---|---|---|---|---|---|---|---|
| HEN-23Q1 Rev 0 | Tetra Tech | 03/02/23 | 1800 | William Colin | 3/2/23 | 800 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Riley

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 03/02/23

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

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

March 27, 2023

Eric Bauer
Ramboll
234 W. Florida St.
5th Floor
Milwaukee, WI 61704
TEL: (414) 837-3607
FAX:

| | |
|---|---|
| Illinois | 100226 |
| Kansas | E-10374 |
| Louisiana | 05002 |
| Louisiana | 05003 |
| Oklahoma | 9978 |

**RE:** HEN-23Q1 **WorkOrder:** 23020844

Dear Eric Bauer:

TEKLAB, INC received 28 samples on 3/2/2023 8:00:00 AM 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



**Client:** Ramboll
**Client Project:** HEN-23Q1

**Work Order:** 23020844
**Report Date:** 27-Mar-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 | 35 |
| Dates Report | 36 |
| Receiving Check List | 38 |
| Chain of Custody | Appended |

# Definitions



**Client:** Ramboll **Work Order:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-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 ) |

Teklab, Inc.
Environmental Laboratory

# Definitions



**Client:** Ramboll **Work Order:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-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:** HEN-23Q1

**Work Order:** 23020844
**Report Date:** 27-Mar-23

**Cooler Receipt Temp:** 3.2 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Pace Analytical Services, LLC. See attached report for results.

## 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:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-23

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|---|---|---|---|---|---|
| Illinois | IEPA | 100226 | NELAP | 1/31/2024 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 4/30/2023 | Collinsville |
| Louisiana | LDEQ | 05002 | NELAP | 6/30/2023 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2023 | Collinsville |
| Oklahoma | ODEQ | 9978 | NELAP | 8/31/2023 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2024 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | 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:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-001
**Client Sample ID:** 03R
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 13:26

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-002
**Client Sample ID:** 07
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 16:16

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-003
**Client Sample ID:** 08
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 15:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-23

**Lab ID:** 23020844-004 **Client Sample ID:** 08D

**Matrix:** GROUNDWATER **Collection Date:** 03/01/2023 14:42

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-005
**Client Sample ID:** 12
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 10:46

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-006
**Client Sample ID:** 13
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 10:28

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-007
**Client Sample ID:** 16
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 15:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-008
**Client Sample ID:** 17
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 16:14

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-009
**Client Sample ID:** 18S
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 12:53

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-010
**Client Sample ID:** 18D
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 13:08

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-011
**Client Sample ID:** 21R
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 9:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-012
**Client Sample ID:** 22
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 11:28

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-013
**Client Sample ID:** 22D
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 11:44

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-014
**Client Sample ID:** 23
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 10:35

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-23

**Lab ID:** 23020844-015 **Client Sample ID:** 27

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 13:47

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-016
**Client Sample ID:** 32
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 13:06

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-017
**Client Sample ID:** 34
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 14:21

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-018
**Client Sample ID:** 35
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 12:33

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/14/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-019
**Client Sample ID:** 45S
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 13:50

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-23

**Lab ID:** 23020844-020 **Client Sample ID:** 46

**Matrix:** GROUNDWATER **Collection Date:** 02/28/2023 16:34

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-021
**Client Sample ID:** 47
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 9:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-022
**Client Sample ID:** 49
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 11:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-023
**Client Sample ID:** 50
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 12:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-024
**Client Sample ID:** 51
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 10:03

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-025
**Client Sample ID:** 52
**Matrix:** GROUNDWATER
**Collection Date:** 02/28/2023 16:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-026
**Client Sample ID:** 54
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 9:59

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-027
**Client Sample ID:** 08 Duplicate
**Matrix:** GROUNDWATER
**Collection Date:** 03/01/2023 15:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23
**Lab ID:** 23020844-028
**Client Sample ID:** Field Blank
**Matrix:** AQUEOUS
**Collection Date:** 03/01/2023 17:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **EPA 903.0/904.0, RADIUM 226/228** | | | | | | | | |
| Radium-226 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |
| Radium-228 | * | 0 | | **See Attached** | pci/L | 1 | 03/16/2023 0:00 | R326520 |

Teklab, Inc.
Environmental Laboratory

# Sample Summary



**Client:** Ramboll
**Client Project:** HEN-23Q1

**Work Order:** 23020844
**Report Date:** 27-Mar-23

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---|---|---|---|---|
| 23020844-001 | 03R | Groundwater | 1 | 03/01/2023 13:26 |
| 23020844-002 | 07 | Groundwater | 1 | 03/01/2023 16:16 |
| 23020844-003 | 08 | Groundwater | 1 | 03/01/2023 15:01 |
| 23020844-004 | 08D | Groundwater | 1 | 03/01/2023 14:42 |
| 23020844-005 | 12 | Groundwater | 1 | 03/01/2023 10:46 |
| 23020844-006 | 13 | Groundwater | 1 | 03/01/2023 10:28 |
| 23020844-007 | 16 | Groundwater | 1 | 02/28/2023 15:57 |
| 23020844-008 | 17 | Groundwater | 1 | 02/28/2023 16:14 |
| 23020844-009 | 18S | Groundwater | 1 | 03/01/2023 12:53 |
| 23020844-010 | 18D | Groundwater | 1 | 03/01/2023 13:08 |
| 23020844-011 | 21R | Groundwater | 1 | 02/28/2023 9:18 |
| 23020844-012 | 22 | Groundwater | 1 | 02/28/2023 11:28 |
| 23020844-013 | 22D | Groundwater | 1 | 02/28/2023 11:44 |
| 23020844-014 | 23 | Groundwater | 1 | 02/28/2023 10:35 |
| 23020844-015 | 27 | Groundwater | 1 | 02/28/2023 13:47 |
| 23020844-016 | 32 | Groundwater | 1 | 02/28/2023 13:06 |
| 23020844-017 | 34 | Groundwater | 1 | 02/28/2023 14:21 |
| 23020844-018 | 35 | Groundwater | 1 | 02/28/2023 12:33 |
| 23020844-019 | 45S | Groundwater | 1 | 03/01/2023 13:50 |
| 23020844-020 | 46 | Groundwater | 1 | 02/28/2023 16:34 |
| 23020844-021 | 47 | Groundwater | 1 | 03/01/2023 9:37 |
| 23020844-022 | 49 | Groundwater | 1 | 02/28/2023 11:01 |
| 23020844-023 | 50 | Groundwater | 1 | 02/28/2023 12:10 |
| 23020844-024 | 51 | Groundwater | 1 | 02/28/2023 10:03 |
| 23020844-025 | 52 | Groundwater | 1 | 02/28/2023 16:57 |
| 23020844-026 | 54 | Groundwater | 1 | 03/01/2023 9:59 |
| 23020844-027 | 08 Duplicate | Groundwater | 1 | 03/01/2023 15:01 |
| 23020844-028 | Field Blank | Aqueous | 1 | 03/01/2023 17:01 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | Test Name | | | Prep Date/Time | Analysis Date/Time |
| 23020844-001A | 03R | 03/01/2023 13:26 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-002A | 07 | 03/01/2023 16:16 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-003A | 08 | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-004A | 08D | 03/01/2023 14:42 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-005A | 12 | 03/01/2023 10:46 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-006A | 13 | 03/01/2023 10:28 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-007A | 16 | 02/28/2023 15:57 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-008A | 17 | 02/28/2023 16:14 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-009A | 18S | 03/01/2023 12:53 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-010A | 18D | 03/01/2023 13:08 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-011A | 21R | 02/28/2023 9:18 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-012A | 22 | 02/28/2023 11:28 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-013A | 22D | 02/28/2023 11:44 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-014A | 23 | 02/28/2023 10:35 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-015A | 27 | 02/28/2023 13:47 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-016A | 32 | 02/28/2023 13:06 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-017A | 34 | 02/28/2023 14:21 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-018A | 35 | 02/28/2023 12:33 | 03/02/2023 8:00 | | |

# Dates Report



**Client:** Ramboll **Work Order:** 23020844

**Client Project:** HEN-23Q1 **Report Date:** 27-Mar-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | Test Name | | | Prep Date/Time | Analysis Date/Time |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/14/2023 0:00 |
| 23020844-019A | 45S | 03/01/2023 13:50 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-020A | 46 | 02/28/2023 16:34 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-021A | 47 | 03/01/2023 9:37 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-022A | 49 | 02/28/2023 11:01 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-023A | 50 | 02/28/2023 12:10 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-024A | 51 | 02/28/2023 10:03 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-025A | 52 | 02/28/2023 16:57 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-026A | 54 | 03/01/2023 9:59 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-027A | 08 Duplicate | 03/01/2023 15:01 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |
| 23020844-028A | Field Blank | 03/01/2023 17:01 | 03/02/2023 8:00 | | |
| | EPA 903.0/904.0, Radium 226/228 | | | | 03/16/2023 0:00 |

Teklab, Inc. Environmental Laboratory

# Receiving Check List



**Client:** Ramboll
**Work Order:** 23020844
**Client Project:** HEN-23Q1
**Report Date:** 27-Mar-23

**Carrier:** Joe Riley
**Received By:** ANC

**Completed by:** Lindsey Maddox
**On:** 02-Mar-23

**Reviewed by:** Elizabeth A. Hurley
**On:** 02-Mar-23

**Pages to follow:** Chain of custody: 2 Extra pages included: 48

| | | | | |
|---|---|---|---|---|
| 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 (87873) was needed in 08, 08D, 12, 27, 34, 35, 47, 49, 50, and 51 upon arrival at the laboratory. - lmaddox - 3/2/2023 10:35:49 AM

pH strip #87147. - lmaddox - 3/2/2023 10:36:49 AM

# CHAIN-OF-CUSTODY / Analytical Request Document

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

23020844

Page: 1 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 ↓: HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_WPCP_East | HEN_WPCP_West | | | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 03R | | | 03/01/23 | 1326 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | 23020844-001 |
| 2 | 07 | | | 03/01/23 | 1616 | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | | | | | | | 002 |
| 3 | * 08 | | | 03/01/23 | 1501 | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | | | | | | | 003 |
| 4 | * 08D | | | 03/01/23 | 1442 | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | | | | | | | 004 |
| 5 | * 12 | | | 03/01/23 | 1046 | | 2 | | | 2 | | | | | | | | ✓ | | | | | | | | | | 005 |
| 6 | 13 | | | 03/01/23 | 1025 | | 2 | | | 2 | | | | | | | | ✓ | | | | | | | | | | 006 |
| 7 | 16 | | | 02/28/23 | 1557 | | 2 | | | 2 | | | | | | | | ✓ | | | | | | | | | | 007 |
| 8 | 17 | | | 02/28/23 | 1647 | | 2 | | | 2 | | | | | | | | ✓ | | | | | | | | | | 008 |
| 9 | 18S | | | 03/01/23 | 1253 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | 009 |
| 10 | 18D | | | 03/01/23 | 1308 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | 010 |
| 11 | 21R | | | 02/28/23 | 0918 | | 2 | | | 2 | | | | | | | | | | ✓ | | ✓ | | | | | | 011 |
| 12 | 22 | | | 02/28/23 | 1124 | | 2 | | | 2 | | | | | | | | | | ✓ | | ✓ | | | | | | 012 |
| 13 | 22D | | | 02/28/23 | 1144 | | 2 | | | 2 | | | | | | | | | | ✓ | | ✓ | | | | | | 013 |
| 14 | 23 | | | 02/28/23 | 1035 | | 2 | | | 2 | | | | | | | | | | ✓ | | ✓ | | | | | | 014 |
| 15 | * 27 | | | 02/28/23 | 1347 | | 2 | | | 2 | | | | | | | | | | ✓ | | ✓ | | | | | | 015 |
| 16 | 32 | | | 02/28/23 | 1306 | | 2 | | | 2 | | | | | | | | | | ✓ | | ✓ | | | | | | 016 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| **HEN-23Q1 Rev 0** | Joe Teklas | 03/02/23 | 0800 | William Colvin | 3/2/23 | 800 |
| Ra226/228, only. | | | | | | |

**SAMPLE CONDITIONS**

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 3.2 | Y | N | ~~N~~ Y |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Joe Ryley

SIGNATURE of SAMPLER: Joe Ryley

DATE Signed (MM/DD/YY): 03/02/23

* Additional $HNO_3$ needed 3.2° #5 MM 3/2

~~(23787)~~ TE 3/23/23

EAH 3/23/23

# 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 | Y/N | Analysis Test: HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ★ 34 | | | 02/24/23 | 1421 | | 2 | | | 2 | | | | | | | | | | ✓ | | | ✓ | | | | 23020844-017 |
| 2 | ★ 35 | | | 02/24/23 | 1233 | | 2 | | | 2 | | | | | | | | | | ✓ | | | ✓ | | | | 018 |
| 3 | 45S | | | 03/01/23 | 1350 | | 2 | | | 2 | | | | | | | | ✓ | | | | | ✓ | | | | 019 |
| 4 | 46 | | | 02/28/23 | 1634 | | 2 | | | 2 | | | | | | | | | ✓ | | | | | | | | 020 |
| 5 | ★ 47 | | | 03/01/23 | 0934 | | 2 | | | 2 | | | | | | | | | ✓ | | | | | | | | 021 |
| 6 | ★ 49 | | | 02/28/23 | 1101 | | 2 | | | 2 | | | | | | | | | | ✓ | | | ✓ | | | | 022 |
| 7 | ★ 50 | | | 02/28/23 | 1210 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | | | | 023 |
| 8 | ★ 51 | | | 02/28/23 | 1003 | | 2 | | | 2 | | | | | | | | | | ✓ | | | ✓ | | | | 024 |
| 9 | 52 | | | 02/28/23 | 1657 | | 2 | | | 2 | | | | | | | | | ✓ | | | | | | | | 025 |
| 10 | 54 | | | 03/01/23 | 0954 | | 2 | | | 2 | | | | | | | | | ✓ | | | | | | | | 026 |
| 11 | 08 Duplicate | | | 03/01/23 | 1501 | | 2 | | | 2 | | | | | | | | ✓ | ✓ | | | ✓ | | | | | 027 |
| 12 | Field Blank | | | 03/01/23 | 1701 | | 2 | | | 2 | | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | | | | 028 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| **HEN-23Q1 Rev 0** | Tekla D | 03/02/23 | 0855 | Allison Colw | 3/2/23 | 800 | |
| DUP and FB per history. | | | | | | | |

| 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: | Joe Rita T | | | | |
| SIGNATURE of SAMPLER: | | DATE Signed (MM/DD/YY): | 03/02/23 | | |

Pace Analytical®

# ANALYTICAL REPORT

March 22, 2023



## TEKLAB, Inc.

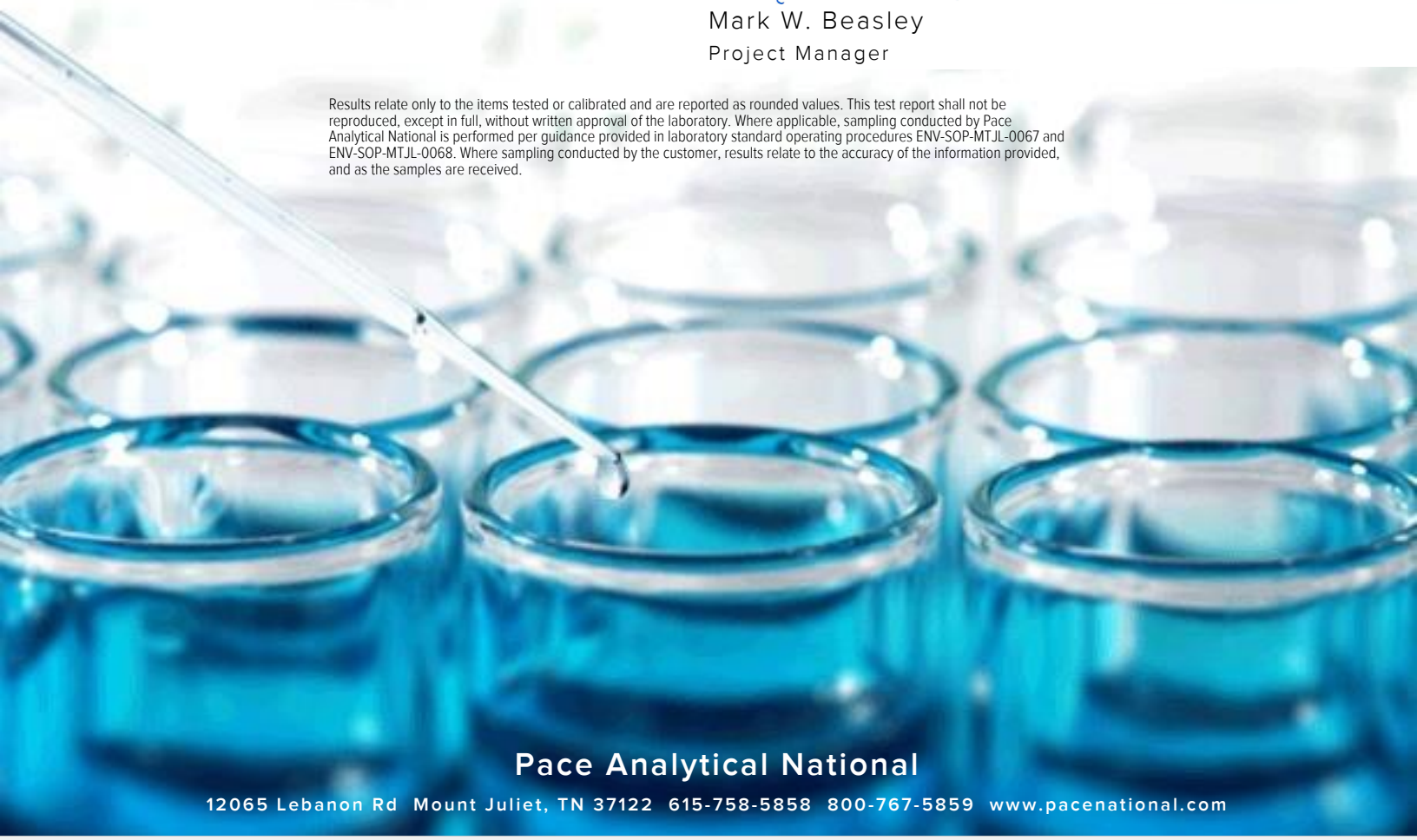
| | |
|---|---|
| Sample Delivery Group: | L1591962 |
| Samples Received: | 03/06/2023 |
| Project Number: | 23020844 |
| Description: | |

Report To: Elizabeth Hurley
5445 Horseshoe Lake Road
Collinsville, IL 62234

Entire Report Reviewed By:

Mark W. Beasley
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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Collected by | Collected date/time | Received date/time

## 23020844-001 L1591962-01 Non-Potable Water

03/01/23 13:26 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-002 L1591962-02 Non-Potable Water

03/01/23 16:16 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-003 L1591962-03 Non-Potable Water

03/01/23 15:01 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-004 L1591962-04 Non-Potable Water

03/01/23 14:42 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-005 L1591962-05 Non-Potable Water

03/01/23 10:46 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-006 L1591962-06 Non-Potable Water

03/01/23 10:28 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-007 L1591962-07 Non-Potable Water

02/28/23 15:57 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-008 L1591962-08 Non-Potable Water

02/28/23 16:14 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-009 L1591962-09 Non-Potable Water

03/01/23 12:53 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2023907 | 1 | 03/15/23 19:33 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 17:45 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:19 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-010 L1591962-10 Non-Potable Water

03/01/23 13:08 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-011 L1591962-11 Non-Potable Water

02/28/23 09:18 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-012 L1591962-12 Non-Potable Water

02/28/23 11:28 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-013 L1591962-13 Non-Potable Water

02/28/23 11:44 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-014 L1591962-14 Non-Potable Water

02/28/23 10:35 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-015 L1591962-15 Non-Potable Water

02/28/23 13:47 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-016 L1591962-16 Non-Potable Water

02/28/23 13:06 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-017 L1591962-17 Non-Potable Water

02/28/23 14:21 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-018 L1591962-18 Non-Potable Water

02/28/23 12:33 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019012 | 1 | 03/08/23 17:16 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019012 | 1 | 03/08/23 17:16 | 03/14/23 11:20 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-019 L1591962-19 Non-Potable Water

03/01/23 13:50 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:33 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-020 L1591962-20 Non-Potable Water

02/28/23 16:34 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-021 L1591962-21 Non-Potable Water

03/01/23 09:37 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-022 L1591962-22 Non-Potable Water

02/28/23 11:01 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-023 L1591962-23 Non-Potable Water

02/28/23 12:10 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2024709 | 1 | 03/16/23 19:18 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/20/23 10:52 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23020844-024 L1591962-24 Non-Potable Water

02/28/23 10:03 | 03/06/23 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2025460 | 1 | 03/17/23 17:43 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

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

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 02/28/23 16:57 | 03/06/23 08:45 |

## 23020844-025 L1591962-25 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2025460 | 1 | 03/17/23 17:43 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 03/01/23 09:59 | 03/06/23 08:45 |

## 23020844-026 L1591962-26 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2025460 | 1 | 03/17/23 17:43 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 03/01/23 15:01 | 03/06/23 08:45 |

## 23020844-027 L1591962-27 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2025460 | 1 | 03/17/23 17:43 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 03/01/23 17:01 | 03/06/23 08:45 |

## 23020844-028 L1591962-28 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2025460 | 1 | 03/17/23 17:43 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2019014 | 1 | 03/13/23 16:35 | 03/22/23 10:40 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2019014 | 1 | 03/13/23 16:35 | 03/16/23 22:32 | RGT | Mt. Juliet, TN |

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

Mark W. Beasley
Project Manager

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.64 | | 0.391 | 0.655 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *78.7* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *85.7* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.93 | | 0.474 | 0.735 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.289 | J | 0.268 | 0.334 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *91.4* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.62 | | 0.307 | 0.502 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *90.5* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *90.1* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.00 | | 0.448 | 0.643 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.384 | J | 0.326 | 0.402 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *80.6* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.688 | | 0.282 | 0.487 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *83.3* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *95.7* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.871 | | 0.349 | 0.558 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.183 | J | 0.206 | 0.272 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *83.5* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.21 | | 0.275 | 0.456 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *78.0* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *103* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.37 | | 0.333 | 0.519 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.167 | J | 0.188 | 0.248 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *78.8* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.143 | U | 0.315 | 0.581 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *80.4* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *94.6* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.370 | J | 0.419 | 0.650 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.370 | | 0.276 | 0.292 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *82.5* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -1.02 | U | 0.298 | 0.576 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *82.1* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *91.4* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.129 | U | 0.333 | 0.607 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.129 | J | 0.148 | 0.190 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *85.3* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.570 | U | 0.335 | 0.587 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *78.4* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *101* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.956 | | 0.425 | 0.640 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.385 | | 0.262 | 0.254 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *89.5* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0392 | U | 0.354 | 0.644 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *76.6* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *82.7* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0457 | U | 0.396 | 0.722 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.00652 | U | 0.178 | 0.327 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *88.1* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.183 | U | 0.306 | 0.561 | 03/20/2023 17:45 | WG2023907 |
| *(T) Barium* | *79.3* | | | *30.0-143* | *03/20/2023 17:45* | WG2023907 |
| *(T) Yttrium* | *99.5* | | | *30.0-136* | *03/20/2023 17:45* | WG2023907 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0783 | U | 0.349 | 0.627 | 03/20/2023 17:45 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0783 | U | 0.168 | 0.279 | 03/14/2023 11:19 | WG2019012 |
| *(T) Barium-133* | *89.1* | | | *30.0-143* | *03/14/2023 11:19* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.04 | | 0.366 | 0.658 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *84.1* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *91.1* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.28 | | 0.438 | 0.729 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.240 | J | 0.241 | 0.313 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *89.9* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.950 | | 0.245 | 0.430 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *80.3* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *104* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.75 | | 0.472 | 0.552 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.803 | | 0.404 | 0.346 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *84.6* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.247 | J | 0.277 | 0.515 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *90.0* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *107* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.324 | J | 0.326 | 0.595 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0769 | U | 0.172 | 0.297 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *86.5* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.263 | J | 0.245 | 0.456 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *94.8* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *93.3* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 1.25 | | 0.495 | 0.555 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.984 | | 0.430 | 0.316 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *86.0* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.635 | J | 0.357 | 0.655 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *77.7* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *78.8* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.727 | | 0.392 | 0.705 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0929 | U | 0.163 | 0.260 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *93.8* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.473 | J | 0.264 | 0.484 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *90.4* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *111* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.671 | | 0.328 | 0.539 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.198 | J | 0.194 | 0.237 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *94.7* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.781 | | 0.248 | 0.443 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *91.6* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *103* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.886 | | 0.314 | 0.534 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.106 | U | 0.192 | 0.298 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *95.3* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.00 | | 0.272 | 0.480 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *87.1* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *93.0* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.55 | | 0.383 | 0.519 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.544 | | 0.269 | 0.197 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *89.9* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.551 | | 0.254 | 0.464 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *78.2* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *98.0* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.99 | | 0.536 | 0.560 | 03/20/2023 10:52 | WG2019012 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.44 | | 0.472 | 0.314 | 03/14/2023 11:20 | WG2019012 |
| *(T) Barium-133* | *88.6* | | | *30.0-143* | *03/14/2023 11:20* | WG2019012 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.598 | | 0.318 | 0.584 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *75.6* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *103* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.748 | | 0.373 | 0.647 | 03/20/2023 10:52 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.149 | J | 0.194 | 0.278 | 03/16/2023 22:33 | WG2019014 |
| *(T) Barium-133* | *89.3* | | | *30.0-143* | *03/16/2023 22:33* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.612 | U | 0.252 | 0.501 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *85.9* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *104* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.187 | U | 0.351 | 0.611 | 03/20/2023 10:52 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.187 | J | 0.244 | 0.349 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *80.6* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.556 | | 0.291 | 0.532 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *94.8* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *91.3* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.671 | | 0.381 | 0.670 | 03/20/2023 10:52 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.115 | U | 0.246 | 0.408 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *71.7* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.208 | U | 0.216 | 0.421 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *95.7* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *100* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.231 | J | 0.310 | 0.503 | 03/20/2023 10:52 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.231 | J | 0.223 | 0.276 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *93.0* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.201 | U | 0.258 | 0.483 | 03/20/2023 10:52 | WG2024709 |
| *(T) Barium* | *91.5* | | | *30.0-143* | *03/20/2023 10:52* | WG2024709 |
| *(T) Yttrium* | *101* | | | *30.0-136* | *03/20/2023 10:52* | WG2024709 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 0.608 | | 0.390 | 0.573 | 03/20/2023 10:52 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.408 | | 0.293 | 0.309 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *88.2* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.387 | J | 0.306 | 0.564 | 03/22/2023 10:40 | WG2025460 |
| *(T) Barium* | *81.0* | | | *30.0-143* | *03/22/2023 10:40* | WG2025460 |
| *(T) Yttrium* | *110* | | | *30.0-136* | *03/22/2023 10:40* | WG2025460 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 1.35 | | 0.493 | 0.623 | 03/22/2023 10:40 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.966 | | 0.386 | 0.264 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *92.4* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -1.69 | U | 0.254 | 0.529 | 03/22/2023 10:40 | WG2025460 |
| *(T) Barium* | *93.9* | | | *30.0-143* | *03/22/2023 10:40* | WG2025460 |
| *(T) Yttrium* | *114* | | | *30.0-136* | *03/22/2023 10:40* | WG2025460 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.259 | J | 0.359 | 0.613 | 03/22/2023 10:40 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.259 | J | 0.254 | 0.310 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *72.3* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.626 | U | 0.278 | 0.539 | 03/22/2023 10:40 | WG2025460 |
| *(T) Barium* | *94.3* | | | *30.0-143* | *03/22/2023 10:40* | WG2025460 |
| *(T) Yttrium* | *108* | | | *30.0-136* | *03/22/2023 10:40* | WG2025460 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.00730 | U | 0.327 | 0.631 | 03/22/2023 10:40 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.00730 | U | 0.172 | 0.329 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *86.1* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.104 | U | 0.265 | 0.506 | 03/22/2023 10:40 | WG2025460 |
| *(T) Barium* | *78.7* | | | *30.0-143* | *03/22/2023 10:40* | WG2025460 |
| *(T) Yttrium* | *117* | | | *30.0-136* | *03/22/2023 10:40* | WG2025460 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.277 | J | 0.336 | 0.548 | 03/22/2023 10:40 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.277 | | 0.207 | 0.210 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *84.2* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.000 | U | 0.272 | 0.512 | 03/22/2023 10:40 | WG2025460 |
| *(T) Barium* | *95.0* | | | *30.0-143* | *03/22/2023 10:40* | WG2025460 |
| *(T) Yttrium* | *94.6* | | | *30.0-136* | *03/22/2023 10:40* | WG2025460 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0150 | U | 0.323 | 0.610 | 03/22/2023 10:40 | WG2019014 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0150 | U | 0.174 | 0.331 | 03/16/2023 22:32 | WG2019014 |
| *(T) Barium-133* | *84.2* | | | *30.0-143* | *03/16/2023 22:32* | WG2019014 |

## Method Blank (MB)

(MB) R3903513-1 03/20/23 17:45

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-228 | -0.137 | U | 0.165 | 0.302 |
| *(T) Barium* | *92.2* | | *92.2* | |
| *(T) Yttrium* | *100* | | *100* | |

## L1587256-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1587256-01 03/20/23 17:45 • (DUP) R3903513-5 03/20/23 17:45

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-228 | 1.61 | 0.441 | 0.748 | 1.75 | 0.370 | 0.748 | 1 | 7.98 | 0.233 | | 20 | 3 |
| *(T) Barium* | *94.4* | | | *89.5* | *89.5* | | | | | | | |
| *(T) Yttrium* | *94.9* | | | *100* | *100* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3903513-2 03/20/23 17:45

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-228 | 5.00 | 5.92 | 118 | 80.0-120 | |
| *(T) Barium* | | | *94.6* | | |
| *(T) Yttrium* | | | *92.9* | | |

## L1585977-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1585977-06 03/20/23 17:45 • (MS) R3903513-3 03/20/23 17:45 • (MSD) R3903513-4 03/20/23 17:45

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-228 | 10.0 | 1.90 | 11.5 | 11.5 | 96.2 | 96.3 | 1 | 70.0-130 | | | 0.0868 | | 20 |
| *(T) Barium* | | *80.7* | | | *90.2* | *83.9* | | | | | | | |
| *(T) Yttrium* | | *77.7* | | | *95.6* | *94.8* | | | | | | | |

## Method Blank (MB)

(MB) R3903198-1 03/20/23 10:52

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-228 | -0.570 | U | 0.143 | 0.289 |
| *(T) Barium* | *96.3* | | *96.3* | |
| *(T) Yttrium* | *105* | | *105* | |

## L1591962-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1591962-10 03/20/23 10:52 • (DUP) R3903198-5 03/20/23 10:52

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-228 | 1.04 | 0.366 | 0.658 | 1.59 | 0.338 | 0.658 | 1 | 42.4 | 1.12 | | 20 | 3 |
| *(T) Barium* | *84.1* | | | *98.6* | *98.6* | | | | | | | |
| *(T) Yttrium* | *91.1* | | | *108* | *108* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3903198-2 03/20/23 10:52

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-228 | 5.00 | 5.67 | 113 | 80.0-120 | |
| *(T) Barium* | | | *94.5* | | |
| *(T) Yttrium* | | | *94.9* | | |

## L1587304-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1587304-03 03/20/23 10:52 • (MS) R3903198-3 03/20/23 10:52 • (MSD) R3903198-4 03/20/23 10:52

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-228 | 10.0 | 1.19 | 13.6 | 12.7 | 124 | 115 | 1 | 70.0-130 | | | 6.71 | | 20 |
| *(T) Barium* | | *91.4* | | | *97.2* | *98.6* | | | | | | | |
| *(T) Yttrium* | | *96.2* | | | *93.8* | *114* | | | | | | | |

## Method Blank (MB)

(MB) R3904214-1 03/22/23 10:40

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-228 | 0.393 | | 0.146 | 0.261 |
| *(T) Barium* | *84.2* | | *84.2* | |
| *(T) Yttrium* | *102* | | *102* | |

## L1591962-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1591962-24 03/22/23 10:40 • (DUP) R3904214-5 03/22/23 10:40

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-228 | 0.387 | 0.306 | 0.564 | 0.850 | 0.431 | 0.564 | 1 | 74.9 | 0.876 | | 20 | 3 |
| *(T) Barium* | *81.0* | | | *77.8* | *77.8* | | | | | | | |
| *(T) Yttrium* | *110* | | | *98.3* | *98.3* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3904214-2 03/22/23 10:40

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-228 | 5.00 | 5.66 | 113 | 80.0-120 | |
| *(T) Barium* | | | *82.6* | | |
| *(T) Yttrium* | | | *114* | | |

## L1587251-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1587251-03 03/22/23 10:40 • (MS) R3904214-3 03/22/23 10:40 • (MSD) R3904214-4 03/22/23 10:40

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-228 | 10.0 | 1.41 | 13.4 | 11.0 | 119 | 95.4 | 1 | 70.0-130 | | | 19.8 | | 20 |
| *(T) Barium* | | *78.8* | | | *84.4* | *87.3* | | | | | | | |
| *(T) Yttrium* | | *98.3* | | | *107* | *111* | | | | | | | |

## Method Blank (MB)

(MB) R3901562-1 03/14/23 11:19

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - pCi/l | MB MDA pCi/l |
|---|---|---|---|---|
| Radium-226 | -0.00764 | U | 0.0488 | 0.0958 |
| *(T) Barium-133* | *87.7* | | *87.7* | |

## L1591962-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1591962-01 03/14/23 11:19 • (DUP) R3901562-5 03/14/23 11:19

| Analyte | Original Result pCi/l | Original Uncertainty + / - | Original MDA pCi/l | DUP Result pCi/l | DUP Uncertainty + / - | DUP MDA pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.289 | 0.268 | 0.334 | 0.626 | 0.347 | 0.334 | 1 | 73.6 | 0.768 | | 20 | 3 |
| *(T) Barium-133* | *91.4* | | | *94.5* | *94.5* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3901562-2 03/14/23 11:19

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Radium-226 | 5.01 | 5.19 | 104 | 80.0-120 | |
| *(T) Barium-133* | | | *84.9* | | |

## L1591962-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1591962-14 03/14/23 11:20 • (MS) R3901562-3 03/14/23 11:19 • (MSD) R3901562-4 03/14/23 11:19

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 20.0 | 0.0929 | 19.6 | 22.5 | 97.7 | 112 | 1 | 75.0-125 | | | 13.5 | | 20 |
| *(T) Barium-133* | | *93.8* | | | *93.5* | *86.4* | | | | | | | |

## Method Blank (MB)

(MB) R3902467-1 03/15/23 10:22

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | -0.0100 | U | 0.0639 | 0.125 |
| *(T) Barium-133* | *67.0* | | *67.0* | |

## L1590063-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1590063-07 03/16/23 22:32 • (DUP) R3902467-5 03/15/23 10:22

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-226 | 0.226 | 0.234 | 0.298 | -0.0426 | 0.277 | 0.298 | 1 | 200 | 0.740 | U | 20 | 3 |
| *(T) Barium-133* | *76.4* | | | *69.4* | *69.4* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3902467-2 03/15/23 10:22

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.01 | 4.94 | 98.6 | 80.0-120 | |
| *(T) Barium-133* | | | *77.4* | | |

## L1591962-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1591962-28 03/16/23 22:32 • (MS) R3902467-3 03/15/23 10:22 • (MSD) R3902467-4 03/15/23 10:22

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-226 | 20.0 | 0.0150 | 19.8 | 22.1 | 99.1 | 111 | 1 | 75.0-125 | | | 11.0 | | 20 |
| *(T) Barium-133* | | *84.2* | | | *87.8* | *82.4* | | | | | | | |

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

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

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [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.

H067

# TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: | Sampler: Joseph Riley/Adam Bridges | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23020844

Contact: Elizabeth Hurley | Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 34061
Phone: (618) 344-1004

U591962

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | 23020844-001 | 3/1/23 1326 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -02 | 23020844-002 | 3/1/23 1616 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -03 | 23020844-003 | 3/1/23 1501 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -04 | 23020844-004 | 3/1/23 1442 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -05 | 23020844-005 | 3/1/23 1046 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -06 | 23020844-006 | 3/1/23 1028 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -07 | 23020844-007 | 3/1/23 1557 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -08 | 23020844-008 | 3/1/23 1614 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -09 | 23020844-009 | 3/1/23 1253 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -10 | 23020844-010 | 3/1/23 1308 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |
| -11 | 23020844-011 | 2/28/23 0918 | HNO3 | Groundwater | ☑ | | | | | | | | | | | |

| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| [signature] | 3/2/23 | [signature] | 3/6/23 |
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Sample Receipt Checklist

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|---|---|---|---|
| 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 | | |

Amb+0=Amb

Teklab maintains a strict policy of client confidentiality and as such does not provide client/samp
Teklab, Inc. protects clients' confidential information as directed by local, state or federal

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3/2/2016

Pg 1 of 3

# TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: | Sampler: Joseph Riley/Adam Bridges | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23020844

Contact: Elizabeth Hurley | Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 34061 | Phone: (618) 344-1004

L1591962

PLEASE NOTE:

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Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | 23020844-001 | 3/1/23 1326 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -02 | 23020844-002 | 3/1/23 1616 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -03 | 23020844-003 | 3/1/23 1501 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -04 | 23020844-004 | 3/1/23 1442 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -05 | 23020844-005 | 3/1/23 1046 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -06 | 23020844-006 | 3/1/23 1028 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -07 | 23020844-007 | 3/1/23 1557 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -08 | 23020844-008 | 3/1/23 1614 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -09 | 23020844-009 | 3/1/23 1253 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -10 | 23020844-010 | 3/1/23 1308 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |
| -11 | 23020844-011 | 2/28/23 0918 | HNO3 | Groundwater | ✔ | | | | | | | | | | | |

| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| AMB | 3/2/23 | | 3/6/23 |
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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

AMB+0 = AMB

SubCocRevA
3/2/2016

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Teklab, Inc. protects clients' confidential information as directed by local, state or federal

# TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: Sampler: Joseph Riley/Adam Bridges QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23020844

Contact: Elizabeth Hurley Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 34061 Phone: (618) 344-1004

L1591962

PLEASE NOTE:

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Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 |
|---|---|---|---|---|---|
| -12 | 23020844-012 | 2/28/23 1128 | HNO3 | Groundwater | ✔ |
| -13 | 23020844-013 | 2/28/23 1144 | HNO3 | Groundwater | ✔ |
| -14 | 23020844-014 | 2/28/23 1035 | HNO3 | Groundwater | ✔ |
| -15 | 23020844-015 | 2/28/23 1347 | HNO3 | Groundwater | ✔ |
| -16 | 23020844-016 | 2/28/23 1306 | HNO3 | Groundwater | ✔ |
| -17 | 23020844-017 | 2/28/23 1421 | HNO3 | Groundwater | ✔ |
| -18 | 23020844-018 | 2/28/23 1233 | HNO3 | Groundwater | ✔ |
| -19 | 23020844-019 | 3/1/23 1350 | HNO3 | Groundwater | ✔ |
| -20 | 23020844-020 | 2/28/23 1634 | HNO3 | Groundwater | ✔ |
| -21 | 23020844-021 | 3/1/23 0937 | HNO3 | Groundwater | ✔ |
| -22 | 23020844-022 | 2/28/23 1101 | HNO3 | Groundwater | ✔ |

| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| [illegible] | 3/2/23 | [illegible] | 3/6/23 |

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Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (

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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 Amb to Amb

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Page 3 of 3

# TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: | Sampler: Joseph Riley/Adam Bridges | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23020844

Contact: Elizabeth Hurley | Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 34061 | Phone: (618) 344-1004

L1591962

PLEASE NOTE:

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Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 |
|---|---|---|---|---|---|
| -23 | 23020844-023 | 2/28/23 23 1210 | HNO3 | Groundwater | ✔ |
| -24 | 23020844-024 | 2/28/23 1003 | HNO3 | Groundwater | ✔ |
| -25 | 23020844-025 | 2/28/23 1057 | HNO3 | Groundwater | ✔ |
| -26 | 23020844-026 | 3/1/23 0959 | HNO3 | Groundwater | ✔ |
| -27 | 23020844-027 | 3/1/23 1501 | HNO3 | Groundwater | ✔ |
| -28 | 23020844-028 | 3/1/23 1701 | HNO3 | Groundwater | ✔ |
| | | | HNO3 | Groundwater | |
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| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| DMP | 3/2/23 | [signature] | 3/6/23 |
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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 | | |

AMB+0=AMB

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Teklab, Inc. protects clients' confidential information as directed by local, state or federal law

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| Tracking Numbers | Temperature |
|---|---|
| 631936159223 | Amb+0=Amb |
| 631936159212 | Amb+0=Amb |
| 631936159201 | Amb+0=Amb |
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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 1616

**WELL INFORMATION**

Well ID: 07
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16:04 | | 68.85 | | | | | | | | |
| | 16:07 | 0.13 | 68.85 | 0 | 11.2 | 7.32 | 1464 | 3.36 | 1.99 | 137.6 | |
| | 16:10 | 0.26 | 68.85 | 0 | 11.3 | 7.04 | 1470 | 2.96 | 0 | 149.4 | |
| | 16:13 | 0.39 | 68.85 | 0 | 11.3 | 6.98 | 1463 | 2.97 | 0 | 155.7 | |
| | 16:16 | 0.52 | 68.85 | 0 | 11.2 | 6.96 | 1467 | 2.69 | 0 | 161.2 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 1501

**WELL INFORMATION**

Well ID: 08
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14:52 | | 54.2 | | | | | | | | |
| | 14:55 | 0.13 | 54.2 | 0 | 13.1 | 6.74 | 2384 | 2.04 | 0 | 164.5 | |
| | 14:58 | 0.26 | 54.2 | 0 | 13.1 | 6.69 | 2418 | 0.56 | 0 | 162.7 | |
| | 15:01 | 0.39 | 54.2 | 0 | 13.1 | 6.67 | 2438 | 0.52 | 0 | 161 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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☐ ☐

**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 1442

**WELL INFORMATION**

Well ID: 08D
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14:30 | | 54.27 | | | | | | | | |
| | 14:36 | 0.39 | 54.27 | 0 | 13.3 | 6.48 | 3177 | 0.51 | 1.01 | 166.4 | |
| | 14:39 | 0.52 | 54.27 | 0 | 13.3 | 6.48 | 3181 | 0.36 | 0 | 161 | |
| | 14:42 | 0.65 | 54.27 | 0 | 13.3 | 6.48 | 3178 | 0.32 | 0 | 158.6 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -



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☐ ☐

**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 2/28/2023 Time: 1557

**WELL INFORMATION**

Well ID: 16
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 15:42 | | 54.86 | | | | | | | | |
| | 15:48 | 0.26 | 54.86 | 0 | 17.8 | 7.41 | 1257 | 0.33 | 0 | 49.2 | |
| | 15:51 | 0.39 | 54.86 | 0 | 17.8 | 7.34 | 1256 | 0.3 | 0 | 52.3 | |
| | 15:54 | 0.52 | 54.86 | 0 | 17.8 | 7.28 | 1257 | 0.27 | 0 | 55.7 | |
| | 15:57 | 0.65 | 54.86 | 0 | 17.8 | 7.25 | 1255 | 0.26 | 0 | 57.7 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / Slight odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 2/28/2023 Time: 1614

**WELL INFORMATION**

Well ID: 17
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16:05 | | 59.08 | | | | | | | | |
| | 16:08 | 0.13 | 59.08 | 0 | 14.6 | 7.09 | 1509 | 2.33 | 0 | 115.7 | |
| | 16:11 | 0.26 | 59.08 | 0 | 14.6 | 7.04 | 1504 | 2.24 | 0 | 116.6 | |
| | 16:14 | 0.39 | 59.08 | 0 | 14.6 | 7.01 | 1505 | 2.22 | 0 | 118 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / Slight odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 1046

**WELL INFORMATION**

Well ID: 12
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10:37 | | 51.32 | | | | | | | | |
| | 10:40 | 0.13 | 51.32 | 0 | 16.9 | 7.34 | 1151 | 3.54 | 3.25 | 124.6 | |
| | 10:43 | 0.26 | 51.32 | 0 | 17.7 | 7.31 | 1134 | 1.46 | 0 | 117.1 | |
| | 10:46 | 0.39 | 51.32 | 0 | 17.8 | 7.29 | 1135 | 1.24 | 0 | 111.9 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 1028

**WELL INFORMATION**

Well ID: 13
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10:19 | | 51.3 | | | | | | | | |
| | 10:22 | 0.13 | 51.3 | 0 | 17.2 | 7.27 | 1136 | 2.3 | 0.73 | 31.6 | |
| | 10:25 | 0.26 | 51.3 | 0 | 17.6 | 7.3 | 1176 | 0.74 | 1.33 | 26.8 | |
| | 10:28 | 0.39 | 51.3 | 0 | 17.6 | 7.32 | 1193 | 0.56 | 1.81 | 26.4 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 2/28/2023 Time: 1634

**WELL INFORMATION**

Well ID: 46
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16:25 | | 51.67 | | | | | | | | |
| | 16:28 | 0.13 | 51.67 | 0 | 16.1 | 7.3 | 1183 | 1.6 | 0.65 | 122.6 | |
| | 16:31 | 0.26 | 51.67 | 0 | 16.2 | 7.31 | 1182 | 1 | 0.82 | 116 | |
| | 16:34 | 0.39 | 51.67 | 0 | 15.9 | 7.32 | 1184 | 0.95 | 0 | 112.5 | Clear |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 0937

**WELL INFORMATION**

Well ID: 47
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9:28 | | 55.79 | | | | | | | | |
| | 9:31 | 0.13 | 55.79 | 0 | 17.3 | 6.96 | 1282 | 2.42 | 9.49 | 193.2 | |
| | 9:34 | 0.26 | 55.79 | 0 | 17.7 | 6.95 | 1287 | 2.33 | 1.45 | 191.3 | |
| | 9:37 | 0.39 | 55.79 | 0 | 17.7 | 6.97 | 1286 | 2.27 | 0.3 | 185.2 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / Slight odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 2/28/2023 Time: 1657

**WELL INFORMATION**

Well ID: 52
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 16:48 | | 54.05 | | | | | | | | |
| | 16:51 | 0.13 | 54.05 | 0 | 17.1 | 7.19 | 1251 | 2.37 | 7.1 | 137.7 | |
| | 16:54 | 0.26 | 54.05 | 0 | 17.3 | 7.17 | 1254 | 2.01 | 2.73 | 133 | |
| | 16:57 | 0.39 | 54.05 | 0 | 17.4 | 7.16 | 1254 | 1.93 | 1.64 | 130.5 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / No odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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**WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM**

**PROJECT INFORMATION**

Site: Hennepin Client: Vistra
Project Number: 23010001 Task #: Start Date: 1/11/2023 Time: 11:00

Field Personnel: J. Riley / J. Colp Finish Date: 3/1/2023 Time: 0959

**WELL INFORMATION**

Well ID: 54
Casing ID: inches

**EVENT TYPE**

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify):Low Flow

**WATER QUALITY INDICATOR PARAMETERS (continued)**

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9:50 | | 53.35 | | | | | | | | |
| | 9:53 | 0.13 | 53.35 | 0 | 17.5 | 7.2 | 1250 | 3.38 | 9.98 | 190.2 | |
| | 9:56 | 0.26 | 53.35 | 0 | 17.6 | 7.18 | 1262 | 1.15 | 3.6 | 188.3 | |
| | 9:59 | 0.39 | 53.35 | 0 | 17.7 | 7.17 | 1264 | 0.89 | 2.18 | 186 | |
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**NOTES (continued)**

Bladder Pump / Clear /No Color / Slight odor

**ABBREVIATIONS**

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units



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Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

June 21, 2023

Eric Bauer
Ramboll
300 S. Wacker Drive
Suite 130
Chicago, IL 60606
TEL: (414) 837-3607
FAX: (414) 837-3608

| | |
|---|---|
| Illinois | 100226 |
| Kansas | E-10374 |
| Louisiana | 05002 |
| Louisiana | 05003 |
| Oklahoma | 9978 |

**RE:** HEN-23Q2 **WorkOrder:** 23051600

Dear Eric Bauer:

TEKLAB, INC received 45 samples on 6/1/2023 4:00:00 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



**Client:** Ramboll
**Client Project:** HEN-23Q2

**Work Order:** 23051600
**Report Date:** 21-Jun-23

**This reporting package includes the following:**


| | |
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| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 38 |
| Dates Report | 39 |
| Quality Control Results | 61 |
| Receiving Check List | 131 |
| Chain of Custody | Appended |

# Definitions



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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 ) |

Teklab, Inc.
Environmental Laboratory

# Definitions



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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:** HEN-23Q2

**Work Order:** 23051600
**Report Date:** 21-Jun-23

**Cooler Receipt Temp:** 5.4 °C

An employee of Teklab, Inc. collected the sample(s).

HEN_257_803 data is included in this report. EAH 6/21/23

## 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:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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 | 6/30/2023 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2023 | 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 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-005 **Client Sample ID:** HEN-07

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 11:45

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **67.80** | ft | 1 | 06/01/2023 11:45 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 06/01/2023 11:45 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **155** | mV | 1 | 06/01/2023 11:45 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **1210** | µS/cm | 1 | 06/01/2023 11:45 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **11.8** | °C | 1 | 06/01/2023 11:45 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **2.60** | mg/L | 1 | 06/01/2023 11:45 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **6.66** | | 1 | 06/01/2023 11:45 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **400** | mg/L | 1 | 06/06/2023 9:35 | R329835 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/06/2023 9:35 | R329835 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **730** | mg/L | 1 | 06/06/2023 11:41 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **109** | mg/L | 5 | 06/06/2023 22:38 | R329893 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.10** | mg/L | 1 | 06/05/2023 10:16 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 1 | 8 | | **68** | mg/L | 2 | 06/06/2023 22:32 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.124** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.0701** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Calcium | NELAP | 0.0350 | 0.100 | | **144** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Lithium | NELAP | 0.0038 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/14/2023 21:33 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **51.5** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Potassium | NELAP | 0.0400 | 0.100 | | **2.81** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **34.2** | mg/L | 1 | 06/06/2023 12:05 | 206885 |
| *LCS recovered outside upper control limits. Sample results are below the reporting limit. 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.* | | | | | | | | | |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Antimony | NELAP | 0.0004 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 18:46 | 206885 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **0.0875** | mg/L | 5 | 06/06/2023 18:46 | 206885 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 18:46 | 206885 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/07/2023 13:05 | 206885 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-005
**Client Sample ID:** HEN-07
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 11:45

| 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 | 06/05/2023 11:35 | 206893 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-006 **Client Sample ID:** HEN-08

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 8:54

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **53.84** | ft | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **168** | mV | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **1620** | µS/cm | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **13.3** | °C | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **2.59** | mg/L | 1 | 06/01/2023 8:54 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **6.53** | | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **496** | mg/L | 1 | 06/05/2023 17:10 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 17:10 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **902** | mg/L | 1 | 06/06/2023 10:56 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **134** | mg/L | 5 | 06/08/2023 0:45 | R329925 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | J | **0.09** | mg/L | 1 | 06/05/2023 10:19 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **149** | mg/L | 5 | 06/06/2023 22:51 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0883** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.121** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Calcium | NELAP | 0.0350 | 0.100 | | **< 0.100** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **0.0090** | mg/L | 1 | 06/15/2023 15:09 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **38.2** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Potassium | NELAP | 0.0400 | 0.100 | | **7.47** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **128** | mg/L | 1 | 06/06/2023 12:07 | 206885 |
| *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 | 06/06/2023 19:46 | 206885 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **0.0032** | mg/L | 5 | 06/06/2023 19:46 | 206885 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 19:46 | 206885 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/07/2023 13:12 | 206885 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-006
**Client Sample ID:** HEN-08
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 8:54

| 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 | 06/05/2023 11:44 | 206893 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-007 **Client Sample ID:** HEN-08&D

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 15:10

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **54.12** | ft | 1 | 05/31/2023 15:10 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 05/31/2023 15:10 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **77** | mV | 1 | 05/31/2023 15:10 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **2250** | µS/cm | 1 | 05/31/2023 15:10 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **13.8** | °C | 1 | 05/31/2023 15:10 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **1.55** | mg/L | 1 | 05/31/2023 15:10 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **6.63** | | 1 | 05/31/2023 15:10 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **524** | mg/L | 1 | 06/05/2023 14:42 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 14:42 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **1290** | mg/L | 1 | 06/05/2023 10:20 | R329833 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 61 | 100 | | **198** | mg/L | 10 | 06/02/2023 17:43 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | J | **0.08** | mg/L | 1 | 06/05/2023 11:17 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 5 | 40 | | **285** | mg/L | 10 | 06/02/2023 17:43 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.108** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Beryllium | NELAP | 0.0002 | 0.0005 | J | **0.0003** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.0842** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Calcium | NELAP | 0.0350 | 0.100 | S | **200** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **0.0114** | mg/L | 1 | 06/15/2023 9:40 | 206856 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **62.0** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Potassium | NELAP | 0.0400 | 0.100 | | **3.97** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| Sodium | NELAP | 0.0180 | 0.0500 | S | **178** | mg/L | 1 | 06/05/2023 17:42 | 206856 |
| *Sample result exceeds 10 times the method blank contamination for Si. Data is reportable per the TNI Standard.* | | | | | | | | | |
| *Allowable Marginal Exceedance of Si in the laboratory control sample is verified per the TNI Standard.* | | | | | | | | | |
| *Matrix spike control limits for 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 | 06/05/2023 19:16 | 206856 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **0.0046** | mg/L | 5 | 06/05/2023 19:16 | 206856 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 19:16 | 206856 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-007
**Client Sample ID:** HEN-08&D
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 15:10

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 19:16 | 206856 |
| **SW-846 7470A (TOTAL)** | | | | | | | | | |
| Mercury | NELAP | 0.00006 | 0.00020 | | **< 0.00020** | mg/L | 1 | 06/05/2023 10:16 | 206867 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-009 **Client Sample ID:** HEN-12

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 11:37

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **51.21** | ft | 1 | 05/31/2023 11:37 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 05/31/2023 11:37 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **148** | mV | 1 | 05/31/2023 11:37 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **817** | µS/cm | 1 | 05/31/2023 11:37 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **15.7** | °C | 1 | 05/31/2023 11:37 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **5.17** | mg/L | 1 | 05/31/2023 11:37 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **7.17** | | 1 | 05/31/2023 11:37 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **224** | mg/L | 1 | 06/05/2023 14:55 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 14:55 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **474** | mg/L | 1 | 06/05/2023 10:21 | R329833 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 12 | 20 | | **64** | mg/L | 2 | 06/02/2023 18:25 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.18** | mg/L | 1 | 06/05/2023 11:31 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 1 | 8 | | **78** | mg/L | 2 | 06/02/2023 18:26 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0570** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.114** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Calcium | NELAP | 0.0350 | 0.100 | | **71.7** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/15/2023 10:44 | 206856 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **29.2** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0151** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Potassium | NELAP | 0.0400 | 0.100 | | **3.58** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **43.6** | mg/L | 1 | 06/05/2023 17:37 | 206856 |
| *Sample result exceeds 10 times the method blank contamination for Si. Data is reportable per the TNI Standard.* | | | | | | | | | |
| *Allowable Marginal Exceedance of Si in the laboratory control sample is verified per the TNI Standard.* | | | | | | | | | |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Antimony | NELAP | 0.0004 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 17:47 | 206856 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 17:47 | 206856 |
| Selenium | NELAP | 0.0006 | 0.0010 | J | **0.0009** | mg/L | 5 | 06/05/2023 17:47 | 206856 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 17:47 | 206856 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-009
**Client Sample ID:** HEN-12
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 11:37

| 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 | 06/05/2023 10:25 | 206867 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-010 **Client Sample ID:** HEN-13

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 12:04

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **51.21** | ft | 1 | 05/31/2023 12:04 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 05/31/2023 12:04 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **152** | mV | 1 | 05/31/2023 12:04 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **814** | µS/cm | 1 | 05/31/2023 12:04 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **16.2** | °C | 1 | 05/31/2023 12:04 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **5.20** | mg/L | 1 | 05/31/2023 12:04 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **7.20** | | 1 | 05/31/2023 12:04 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **218** | mg/L | 1 | 06/05/2023 15:02 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 15:02 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **408** | mg/L | 1 | 06/05/2023 10:22 | R329833 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **73** | mg/L | 5 | 06/02/2023 18:33 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.16** | mg/L | 1 | 06/05/2023 11:32 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **90** | mg/L | 5 | 06/02/2023 18:34 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0426** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.107** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Calcium | NELAP | 0.0350 | 0.100 | | **72.7** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **0.0188** | mg/L | 1 | 06/15/2023 10:48 | 206856 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **29.7** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0103** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Potassium | NELAP | 0.0400 | 0.100 | | **3.86** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **45.6** | mg/L | 1 | 06/05/2023 17:44 | 206856 |
| *Sample result exceeds 10 times the method blank contamination for Si. Data is reportable per the TNI Standard.* | | | | | | | | | |
| *Allowable Marginal Exceedance of Si in the laboratory control sample is verified per the TNI Standard.* | | | | | | | | | |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Antimony | NELAP | 0.0004 | 0.0010 | | **0.0013** | mg/L | 5 | 06/05/2023 17:52 | 206856 |
| Cobalt | NELAP | 0.0001 | 0.0010 | J | **0.0001** | mg/L | 5 | 06/05/2023 17:52 | 206856 |
| Selenium | NELAP | 0.0006 | 0.0010 | J | **0.0009** | mg/L | 5 | 06/05/2023 17:52 | 206856 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 17:52 | 206856 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-010
**Client Sample ID:** HEN-13
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 12:04

| 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 | 06/05/2023 10:29 | 206867 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-011 **Client Sample ID:** HEN-16

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 9:40

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **54.57** | ft | 1 | 06/01/2023 9:40 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 06/01/2023 9:40 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **138** | mV | 1 | 06/01/2023 9:40 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **807** | µS/cm | 1 | 06/01/2023 9:40 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **18.8** | °C | 1 | 06/01/2023 9:40 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **2.82** | mg/L | 1 | 06/01/2023 9:40 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **7.21** | | 1 | 06/01/2023 9:40 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **186** | mg/L | 1 | 06/06/2023 10:01 | R329835 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/06/2023 10:01 | R329835 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **502** | mg/L | 1 | 06/06/2023 11:41 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 12 | 20 | | **68** | mg/L | 2 | 06/06/2023 23:15 | R329893 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.23** | mg/L | 1 | 06/05/2023 10:29 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 1 | 8 | | **83** | mg/L | 2 | 06/06/2023 23:15 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0617** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.116** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Calcium | NELAP | 0.0350 | 0.100 | | **68.6** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Lithium | NELAP | 0.0019 | 0.0050 | J | **0.0025** | mg/L | 1 | 06/15/2023 15:13 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **27.4** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0123** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Potassium | NELAP | 0.0400 | 0.100 | | **4.06** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **43.5** | mg/L | 1 | 06/06/2023 12:08 | 206885 |
| *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 | 06/06/2023 19:51 | 206885 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 19:51 | 206885 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 19:51 | 206885 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/07/2023 13:18 | 206885 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-011
**Client Sample ID:** HEN-16
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 9:40

| 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 | 06/05/2023 11:48 | 206893 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-012 **Client Sample ID:** HEN-17

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 10:08

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **55.96** | ft | 1 | 06/01/2023 10:08 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 06/01/2023 10:08 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **151** | mV | 1 | 06/01/2023 10:08 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **872** | µS/cm | 1 | 06/01/2023 10:08 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **15.9** | °C | 1 | 06/01/2023 10:08 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **8.01** | mg/L | 1 | 06/01/2023 10:08 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **6.96** | | 1 | 06/01/2023 10:08 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **234** | mg/L | 1 | 06/06/2023 10:06 | R329835 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/06/2023 10:06 | R329835 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **498** | mg/L | 1 | 06/06/2023 11:42 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **76** | mg/L | 5 | 06/06/2023 23:20 | R329893 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.13** | mg/L | 1 | 06/05/2023 10:38 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **91** | mg/L | 5 | 06/06/2023 23:20 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0950** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.0829** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Calcium | NELAP | 0.0350 | 0.100 | | **94.6** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Lithium | NELAP | 0.0019 | 0.0050 | J | **0.0034** | mg/L | 1 | 06/15/2023 15:17 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **30.5** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Potassium | NELAP | 0.0400 | 0.100 | | **3.47** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **39.5** | mg/L | 1 | 06/06/2023 12:10 | 206885 |
| *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 | 06/06/2023 19:57 | 206885 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 19:57 | 206885 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/06/2023 19:57 | 206885 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/07/2023 13:24 | 206885 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-012
**Client Sample ID:** HEN-17
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 10:08

| 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 | 06/05/2023 11:51 | 206893 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-031 **Client Sample ID:** HEN-46

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 11:00

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **51.40** | ft | 1 | 05/31/2023 11:00 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 05/31/2023 11:00 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **140** | mV | 1 | 05/31/2023 11:00 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **815** | µS/cm | 1 | 05/31/2023 11:00 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **16.1** | °C | 1 | 05/31/2023 11:00 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **4.84** | mg/L | 1 | 05/31/2023 11:00 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **7.10** | | 1 | 05/31/2023 11:00 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **213** | mg/L | 1 | 06/05/2023 16:32 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 16:32 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **464** | mg/L | 1 | 06/05/2023 12:09 | R329833 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **91** | mg/L | 5 | 06/02/2023 21:37 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.17** | mg/L | 1 | 06/05/2023 12:09 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **86** | mg/L | 5 | 06/02/2023 21:38 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0624** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.133** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Calcium | NELAP | 0.0350 | 0.100 | | **72.7** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/15/2023 14:14 | 206856 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **29.3** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0138** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Potassium | NELAP | 0.0400 | 0.100 | | **3.64** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **43.5** | mg/L | 1 | 06/05/2023 17:58 | 206856 |
| *Sample result exceeds 10 times the method blank contamination for Si. Data is reportable per the TNI Standard.* | | | | | | | | | |
| *Allowable Marginal Exceedance of Si in the laboratory control sample is verified per the TNI Standard.* | | | | | | | | | |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Antimony | NELAP | 0.0004 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 20:24 | 206856 |
| Cobalt | NELAP | 0.0001 | 0.0010 | J | **0.0001** | mg/L | 5 | 06/05/2023 20:24 | 206856 |
| Selenium | NELAP | 0.0006 | 0.0010 | J | **0.0007** | mg/L | 5 | 06/05/2023 20:24 | 206856 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 20:24 | 206856 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-031
**Client Sample ID:** HEN-46
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 11:00

| 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 | 06/05/2023 12:56 | 206869 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-032 **Client Sample ID:** HEN-47

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 9:56

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **55.66** | ft | 1 | 05/31/2023 9:56 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 05/31/2023 9:56 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **145** | mV | 1 | 05/31/2023 9:56 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **868** | µS/cm | 1 | 05/31/2023 9:56 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **18.1** | °C | 1 | 05/31/2023 9:56 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **3.60** | mg/L | 1 | 05/31/2023 9:56 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **6.89** | | 1 | 05/31/2023 9:56 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **258** | mg/L | 1 | 06/05/2023 16:38 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 16:38 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **512** | mg/L | 1 | 06/05/2023 12:09 | R329833 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **85** | mg/L | 5 | 06/02/2023 22:01 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.27** | mg/L | 1 | 06/05/2023 12:18 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **77** | mg/L | 5 | 06/02/2023 22:02 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0802** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.378** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Calcium | NELAP | 0.0350 | 0.100 | S | **88.2** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **0.0101** | mg/L | 1 | 06/15/2023 12:00 | 206857 |
| Magnesium | NELAP | 0.0055 | 0.0500 | S | **29.1** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0302** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Potassium | NELAP | 0.0400 | 0.100 | | **4.87** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| Sodium | NELAP | 0.0180 | 0.0500 | S | **53.1** | mg/L | 1 | 06/05/2023 16:53 | 206857 |
| *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.* | | | | | | | | | |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Antimony | NELAP | 0.0004 | 0.0010 | J | **0.0009** | mg/L | 5 | 06/05/2023 16:43 | 206857 |
| Cobalt | NELAP | 0.0001 | 0.0010 | J | **0.0005** | mg/L | 5 | 06/05/2023 16:43 | 206857 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **0.0014** | mg/L | 5 | 06/05/2023 16:43 | 206857 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 16:43 | 206857 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-032
**Client Sample ID:** HEN-47
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 9:56

| 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 | 06/05/2023 12:58 | 206869 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-036 **Client Sample ID:** HEN-52

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 10:29

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **53.89** | ft | 1 | 06/01/2023 10:29 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **2.8** | NTU | 1 | 06/01/2023 10:29 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **92** | mV | 1 | 06/01/2023 10:29 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **817** | µS/cm | 1 | 06/01/2023 10:29 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **17.3** | °C | 1 | 06/01/2023 10:29 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **3.71** | mg/L | 1 | 06/01/2023 10:29 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **7.49** | | 1 | 06/01/2023 10:29 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **205** | mg/L | 1 | 06/06/2023 10:40 | R329835 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/06/2023 10:40 | R329835 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **456** | mg/L | 1 | 06/06/2023 11:42 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **77** | mg/L | 5 | 06/07/2023 0:23 | R329893 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.25** | mg/L | 1 | 06/05/2023 10:51 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **88** | mg/L | 5 | 06/07/2023 0:24 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0731** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Beryllium | NELAP | 0.0002 | 0.0005 | J | **0.0002** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.195** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Calcium | NELAP | 0.0350 | 0.100 | | **79.0** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Lithium | NELAP | 0.0019 | 0.0050 | J | **0.0020** | mg/L | 1 | 06/15/2023 15:24 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **26.6** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0145** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Potassium | NELAP | 0.0400 | 0.100 | | **4.22** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **48.0** | mg/L | 1 | 06/06/2023 13:07 | 206885 |
| *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 | 06/06/2023 20:08 | 206885 |
| Cobalt | NELAP | 0.0001 | 0.0010 | J | **0.0003** | mg/L | 5 | 06/06/2023 20:08 | 206885 |
| Selenium | NELAP | 0.0006 | 0.0010 | J | **0.0008** | mg/L | 5 | 06/06/2023 20:08 | 206885 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/09/2023 6:13 | 206885 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-036
**Client Sample ID:** HEN-52
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 10:29

| 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 | 06/05/2023 12:11 | 206893 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-037 **Client Sample ID:** HEN-54

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 10:27

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **53.23** | ft | 1 | 05/31/2023 10:27 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 05/31/2023 10:27 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **149** | mV | 1 | 05/31/2023 10:27 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **828** | µS/cm | 1 | 05/31/2023 10:27 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **17.1** | °C | 1 | 05/31/2023 10:27 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **5.71** | mg/L | 1 | 05/31/2023 10:27 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **7.07** | | 1 | 05/31/2023 10:27 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **232** | mg/L | 1 | 06/05/2023 17:04 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 17:04 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **480** | mg/L | 1 | 06/05/2023 12:11 | R329833 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **76** | mg/L | 5 | 06/02/2023 23:03 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **0.20** | mg/L | 1 | 06/05/2023 12:27 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **84** | mg/L | 5 | 06/02/2023 23:03 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0537** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.294** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Calcium | NELAP | 0.0350 | 0.100 | S | **85.9** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **0.0108** | mg/L | 1 | 06/15/2023 14:29 | 206857 |
| Magnesium | NELAP | 0.0055 | 0.0500 | S | **31.6** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **0.0223** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Potassium | NELAP | 0.0400 | 0.100 | | **5.11** | mg/L | 1 | 06/05/2023 17:11 | 206857 |
| Sodium | NELAP | 0.0180 | 0.0500 | S | **44.5** | mg/L | 1 | 06/05/2023 17:11 | 206857 |

*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.*

*CCV for As and Cd recovered outside the upper control limits. Sample results are below the reporting limit. 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 | 06/05/2023 17:57 | 206857 |
| Cobalt | NELAP | 0.0001 | 0.0010 | J | **0.0002** | mg/L | 5 | 06/05/2023 17:57 | 206857 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **0.0014** | mg/L | 5 | 06/05/2023 17:57 | 206857 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-037
**Client Sample ID:** HEN-54
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 10:27

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 17:57 | 206857 |
| **SW-846 7470A (TOTAL)** | | | | | | | | | |
| Mercury | NELAP | 0.00006 | 0.00020 | | **< 0.00020** | mg/L | 1 | 06/05/2023 13:08 | 206869 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-038
**Client Sample ID:** HEN-55
**Matrix:** GROUNDWATER
**Collection Date:** 05/30/2023 14:38

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **50.55** | ft | 1 | 05/30/2023 14:38 | R329806 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-039 **Client Sample ID:** HEN-XPW01-pore

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 8:58

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **10.25** | ft | 1 | 06/01/2023 8:58 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **2.0** | NTU | 1 | 06/01/2023 8:58 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **-172** | mV | 1 | 06/01/2023 8:58 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **1120** | µS/cm | 1 | 06/01/2023 8:58 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **16.5** | °C | 1 | 06/01/2023 8:58 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **1.10** | mg/L | 1 | 06/01/2023 8:58 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **11.0** | | 1 | 06/01/2023 8:58 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 13:19 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **82** | mg/L | 1 | 06/05/2023 13:19 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **538** | mg/L | 1 | 06/06/2023 10:56 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 61 | 100 | | **202** | mg/L | 10 | 06/07/2023 0:26 | R329893 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 5 | 40 | | **60** | mg/L | 10 | 06/07/2023 0:27 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Calcium | NELAP | 0.0350 | 0.100 | | **41.4** | mg/L | 1 | 06/06/2023 13:09 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **0.564** | mg/L | 1 | 06/06/2023 13:09 | 206885 |
| Potassium | NELAP | 0.400 | 1.00 | | **34.6** | mg/L | 10 | 06/08/2023 13:54 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **128** | mg/L | 1 | 06/06/2023 13:09 | 206885 |

*Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.*

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-040 **Client Sample ID:** HEN-XPW02-pore

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 9:25

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **15.37** | ft | 1 | 06/01/2023 9:25 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **1.4** | NTU | 1 | 06/01/2023 9:25 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **-75** | mV | 1 | 06/01/2023 9:25 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **3690** | µS/cm | 1 | 06/01/2023 9:25 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **16.3** | °C | 1 | 06/01/2023 9:25 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **1.57** | mg/L | 1 | 06/01/2023 9:25 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **11.8** | | 1 | 06/01/2023 9:25 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 13:33 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **192** | mg/L | 1 | 06/05/2023 13:33 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **1360** | mg/L | 1 | 06/06/2023 10:57 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 123 | 200 | | **353** | mg/L | 20 | 06/07/2023 0:50 | R329893 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 1 | 8 | | **39** | mg/L | 2 | 06/07/2023 0:46 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Calcium | NELAP | 0.0350 | 0.100 | | **25.5** | mg/L | 1 | 06/06/2023 13:10 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **0.179** | mg/L | 1 | 06/06/2023 13:10 | 206885 |
| Potassium | NELAP | 0.400 | 1.00 | | **51.4** | mg/L | 10 | 06/08/2023 13:55 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **435** | mg/L | 1 | 06/06/2023 13:10 | 206885 |

*Sample result(s) for Si exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.*

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-041 **Client Sample ID:** HEN-XPW03-pore

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 9:52

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **6.41** | ft | 1 | 06/01/2023 9:52 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 06/01/2023 9:52 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **-36** | mV | 1 | 06/01/2023 9:52 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **1570** | µS/cm | 1 | 06/01/2023 9:52 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **15.5** | °C | 1 | 06/01/2023 9:52 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **1.35** | mg/L | 1 | 06/01/2023 9:52 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **11.4** | | 1 | 06/01/2023 9:52 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/05/2023 14:17 | R329791 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **78** | mg/L | 1 | 06/05/2023 14:17 | R329791 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **692** | mg/L | 1 | 06/06/2023 10:57 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 61 | 100 | | **240** | mg/L | 10 | 06/07/2023 0:58 | R329893 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 1 | 8 | | **55** | mg/L | 2 | 06/07/2023 0:53 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Calcium | NELAP | 0.0350 | 0.100 | | **95.9** | mg/L | 1 | 06/06/2023 13:12 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **0.0871** | mg/L | 1 | 06/06/2023 13:12 | 206885 |
| Potassium | NELAP | 0.400 | 1.00 | | **25.4** | mg/L | 10 | 06/08/2023 13:57 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **106** | mg/L | 1 | 06/06/2023 13:12 | 206885 |

*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
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-042
**Client Sample ID:** HEN-XSG01
**Matrix:** GROUNDWATER
**Collection Date:** 05/30/2023 14:03

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **7.17** | ft | 1 | 05/30/2023 14:03 | R329806 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-043
**Client Sample ID:** HEN-YSG-ILRIVER
**Matrix:** GROUNDWATER
**Collection Date:** 05/30/2023 13:21

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **440.50** | ft | 1 | 05/30/2023 13:21 | R329806 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-044 **Client Sample ID:** Field Blank

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 8:22

| 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 | 06/06/2023 10:50 | R329835 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/06/2023 10:50 | R329835 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | J | **18** | mg/L | 1 | 06/06/2023 11:43 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 6 | 10 | | **< 10** | mg/L | 1 | 06/02/2023 23:09 | R329716 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | | **< 0.10** | mg/L | 1 | 06/05/2023 11:01 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 1 | 4 | | **< 4** | mg/L | 1 | 06/02/2023 23:11 | R329717 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Barium | NELAP | 0.0007 | 0.0025 | | **< 0.0025** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Boron | NELAP | 0.0090 | 0.0200 | | **< 0.0200** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Calcium | NELAP | 0.035 | 0.10 | J | **0.044** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/15/2023 15:05 | 206857 |
| Magnesium | NELAP | 0.0055 | 0.050 | J | **0.025** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Potassium | NELAP | 0.0400 | 0.100 | | **< 0.100** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| Sodium | NELAP | 0.018 | 0.050 | J | **0.025** | mg/L | 1 | 06/05/2023 17:02 | 206857 |
| **SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)** | | | | | | | | | |
| Antimony | NELAP | 0.0004 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 17:20 | 206857 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 17:20 | 206857 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/05/2023 17:20 | 206857 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/05/2023 17:20 | 206857 |
| **SW-846 7470A (TOTAL)** | | | | | | | | | |
| Mercury | NELAP | 0.00006 | 0.00020 | | **< 0.00020** | mg/L | 1 | 06/05/2023 13:10 | 206869 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

**Lab ID:** 23051600-045 **Client Sample ID:** HEN-08 Duplicate

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 8:54

| Analyses | Certification | MDL | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|---|
| **FIELD ELEVATION MEASUREMENTS** | | | | | | | | | |
| Depth to water from measuring point | * | 0 | 0 | | **53.84** | ft | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2130 B FIELD** | | | | | | | | | |
| Turbidity | * | 1.0 | 1.0 | | **< 1.0** | NTU | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 18TH ED. 2580 B FIELD** | | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | -300 | | **168** | mV | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2510 B FIELD** | | | | | | | | | |
| Spec. Conductance, Field | * | 0 | 0 | | **1620** | µS/cm | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2550 B FIELD** | | | | | | | | | |
| Temperature | * | 0 | 0 | | **13.3** | °F | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 4500-O G FIELD** | | | | | | | | | |
| Oxygen, Dissolved | * | 0 | 0 | | **2.59** | mg/L | 1 | 06/01/2023 8:54 | R329806 |
| **SW-846 9040B FIELD** | | | | | | | | | |
| pH | * | 0 | 1.00 | | **6.53** | | 1 | 06/01/2023 8:54 | R329806 |
| **STANDARD METHODS 2320 B (TOTAL) 1997, 2011** | | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | 0 | | **518** | mg/L | 1 | 06/06/2023 10:56 | R329835 |
| **STANDARD METHODS 2320 B 1997, 2011** | | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | 0 | | **0** | mg/L | 1 | 06/06/2023 10:56 | R329835 |
| **STANDARD METHODS 2540 C (TOTAL) 1997, 2011** | | | | | | | | | |
| Total Dissolved Solids | NELAP | 16 | 20 | | **900** | mg/L | 1 | 06/06/2023 11:43 | R329904 |
| **SW-846 9036 (TOTAL)** | | | | | | | | | |
| Sulfate | NELAP | 31 | 50 | | **104** | mg/L | 5 | 06/07/2023 1:06 | R329893 |
| **SW-846 9214 (TOTAL)** | | | | | | | | | |
| Fluoride | NELAP | 0.04 | 0.10 | J | **0.08** | mg/L | 1 | 06/05/2023 11:07 | R329756 |
| **SW-846 9251 (TOTAL)** | | | | | | | | | |
| Chloride | NELAP | 2 | 20 | | **147** | mg/L | 5 | 06/07/2023 1:07 | R329848 |
| **SW-846 3005A, 6010B, METALS BY ICP (TOTAL)** | | | | | | | | | |
| Arsenic | NELAP | 0.0087 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Barium | NELAP | 0.0007 | 0.0025 | | **0.0904** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Beryllium | NELAP | 0.0002 | 0.0005 | | **< 0.0005** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Boron | NELAP | 0.0090 | 0.0200 | | **0.125** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Cadmium | NELAP | 0.0005 | 0.0020 | | **< 0.0020** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Calcium | NELAP | 0.0350 | 0.100 | | **151** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Chromium | NELAP | 0.0028 | 0.0050 | | **< 0.0050** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Lead | NELAP | 0.0040 | 0.0075 | | **< 0.0075** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Lithium | NELAP | 0.0019 | 0.0050 | | **0.0080** | mg/L | 1 | 06/15/2023 15:30 | 206885 |
| Magnesium | NELAP | 0.0055 | 0.0500 | | **39.2** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Molybdenum | NELAP | 0.0037 | 0.0100 | | **< 0.0100** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Potassium | NELAP | 0.0400 | 0.100 | | **7.64** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| Sodium | NELAP | 0.0180 | 0.0500 | | **141** | mg/L | 1 | 06/06/2023 13:13 | 206885 |
| *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 | 06/07/2023 0:06 | 206885 |
| Cobalt | NELAP | 0.0001 | 0.0010 | | **0.0026** | mg/L | 5 | 06/07/2023 0:06 | 206885 |
| Selenium | NELAP | 0.0006 | 0.0010 | | **< 0.0010** | mg/L | 5 | 06/07/2023 0:06 | 206885 |
| Thallium | NELAP | 0.0010 | 0.0020 | | **< 0.0020** | mg/L | 5 | 06/09/2023 2:45 | 206885 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23
**Lab ID:** 23051600-045
**Client Sample ID:** HEN-08 Duplicate
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 8:54

| 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 | 06/05/2023 12:13 | 206893 |

Teklab, Inc.
Environmental Laboratory

# Sample Summary



**Client:** Ramboll
**Client Project:** HEN-23Q2

**Work Order:** 23051600
**Report Date:** 21-Jun-23

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---|---|---|---|---|
| 23051600-005 | HEN-07 | Groundwater | 9 | 06/01/2023 11:45 |
| 23051600-006 | HEN-08 | Groundwater | 10 | 06/01/2023 8:54 |
| 23051600-007 | HEN-08&D | Groundwater | 1 | 05/31/2023 9:22 |
| 23051600-007 | HEN-08&D | Groundwater | 9 | 05/31/2023 15:10 |
| 23051600-009 | HEN-12 | Groundwater | 9 | 05/31/2023 11:37 |
| 23051600-010 | HEN-13 | Groundwater | 9 | 05/31/2023 12:04 |
| 23051600-011 | HEN-16 | Groundwater | 6 | 06/01/2023 9:40 |
| 23051600-012 | HEN-17 | Groundwater | 6 | 06/01/2023 10:08 |
| 23051600-031 | HEN-46 | Groundwater | 6 | 05/31/2023 11:00 |
| 23051600-032 | HEN-47 | Groundwater | 6 | 05/31/2023 9:56 |
| 23051600-036 | HEN-52 | Groundwater | 6 | 06/01/2023 10:29 |
| 23051600-037 | HEN-54 | Groundwater | 6 | 05/31/2023 10:27 |
| 23051600-038 | HEN-55 | Groundwater | 1 | 05/30/2023 14:38 |
| 23051600-039 | HEN-XPW01-pore | Groundwater | 6 | 06/01/2023 8:58 |
| 23051600-040 | HEN-XPW02-pore | Groundwater | 6 | 06/01/2023 9:25 |
| 23051600-041 | HEN-XPW03-pore | Groundwater | 6 | 06/01/2023 9:52 |
| 23051600-042 | HEN-XSG01 | Groundwater | 1 | 05/30/2023 14:03 |
| 23051600-043 | HEN-YSG-ILRIVER | Groundwater | 1 | 05/30/2023 13:21 |
| 23051600-044 | Field Blank | Groundwater | 10 | 06/01/2023 8:22 |
| 23051600-045 | HEN-08 Duplicate | Groundwater | 10 | 06/01/2023 8:54 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23051600-005A | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 11:45 |
| | Field Elevation Measurements | | | | 06/01/2023 11:45 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 11:45 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 11:45 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/06/2023 9:35 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 9:35 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 11:45 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 11:41 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 11:45 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:56 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:21 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:21 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 11:45 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 14:19 |
| | SW-846 9036 (Total) | | | | 06/06/2023 22:38 |
| | SW-846 9040B Field | | | | 06/01/2023 11:45 |
| | SW-846 9214 (Total) | | | | 06/05/2023 10:16 |
| | SW-846 9251 (Total) | | | | 06/06/2023 22:32 |
| 23051600-005B | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | EPA 314.0 | | | | 06/14/2023 14:52 |
| 23051600-005C | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 10:50 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 10:50 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:41 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:16 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:16 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 15:50 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 17:09 |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 10:01 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 0:28 |
| 23051600-005D | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 12:05 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 9:20 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/14/2023 21:33 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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) | | | 06/02/2023 12:45 | 06/05/2023 23:29 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 18:46 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 13:05 |
| | SW-846 7470A (Total) | | | 06/02/2023 13:47 | 06/05/2023 11:35 |
| 23051600-005E | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:25 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 9:59 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 21:23 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 12:08 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 13:47 | 06/05/2023 11:42 |
| 23051600-005F | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 14:07 |
| 23051600-005G | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 20:57 |
| 23051600-005H | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 12:36 |
| 23051600-005I | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/02/2023 19:55 |
| 23051600-006A | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 8:54 |
| | Field Elevation Measurements | | | | 06/01/2023 8:54 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 17:10 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 17:10 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 17:10 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 10:56 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:56 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:23 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:23 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 8:54 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 14:21 |
| | SW-846 9036 (Total) | | | | 06/08/2023 0:45 |
| | SW-846 9040B Field | | | | 06/01/2023 8:54 |

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9214 (Total) | | | | 06/05/2023 10:19 |
| | SW-846 9251 (Total) | | | | 06/06/2023 22:51 |
| 23051600-006B | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | EPA 314.0 | | | | 06/14/2023 15:12 |
| 23051600-006C | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 10:56 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 10:56 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:42 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:18 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:18 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 15:51 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 17:28 |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 10:03 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 0:41 |
| 23051600-006D | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 12:07 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 9:21 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/15/2023 15:09 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/05/2023 23:34 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 19:46 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 13:12 |
| | SW-846 7470A (Total) | | | 06/02/2023 13:47 | 06/05/2023 11:44 |
| 23051600-006E | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:26 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 10:00 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 21:29 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 13:31 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 13:47 | 06/05/2023 11:46 |
| 23051600-006F | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 14:12 |
| 23051600-006G | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 21:03 |
| | SW-846 9066 (Total) | | | | 06/06/2023 9:51 |
| 23051600-006H | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 12:43 |

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23051600-006I | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 06/05/2023 18:32 |
| 23051600-006J | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/02/2023 20:20 |
| 23051600-007A | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | Ferrous Iron by CHEMets Kit | | | | 05/31/2023 15:10 |
| | Field Elevation Measurements | | | | 05/31/2023 15:10 |
| | Standard Methods 2130 B Field | | | | 05/31/2023 15:10 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 14:42 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 05/31/2023 15:10 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 14:42 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 14:42 |
| | Standard Methods 2510 B Field | | | | 05/31/2023 15:10 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/05/2023 10:20 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 15:10 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 11:31 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 10:05 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 10:05 |
| | Standard Methods 4500-O G Field | | | | 05/31/2023 15:10 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 16:05 |
| | SW-846 9036 (Total) | | | | 06/02/2023 17:43 |
| | SW-846 9040B Field | | | | 05/31/2023 15:10 |
| | SW-846 9214 (Total) | | | | 06/05/2023 11:17 |
| | SW-846 9251 (Total) | | | | 06/02/2023 17:43 |
| 23051600-007B | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | EPA 314.0 | | | | 06/14/2023 15:33 |
| 23051600-007C | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 9:42 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 9:42 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 15:10 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 11:32 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 11:08 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 11:08 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:43 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 12:10 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 10:21 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 12:10 |
| 23051600-007D | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/05/2023 17:42 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/07/2023 9:12 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/15/2023 9:40 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/01/2023 18:35 | 06/05/2023 19:16 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:28 | 06/05/2023 10:16 |
| 23051600-007E | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:34 | 06/07/2023 11:41 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:34 | 06/08/2023 12:19 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 8:34 | 06/05/2023 13:55 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 8:28 | 06/05/2023 10:18 |
| 23051600-007F | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 14:16 |
| 23051600-007G | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/12/2023 12:59 |
| | SW-846 9066 (Total) | | | | 06/06/2023 10:00 |
| 23051600-007H | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 12:49 |
| 23051600-007I | HEN-08&D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 06/05/2023 9:50 |
| 23051600-007J | HEN-08&D | 05/31/2023 9:22 | 06/01/2023 12:08 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/01/2023 22:06 |
| 23051600-009A | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | Ferrous Iron by CHEMets Kit | | | | 05/31/2023 11:37 |
| | Field Elevation Measurements | | | | 05/31/2023 11:37 |
| | Standard Methods 2130 B Field | | | | 05/31/2023 11:37 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 14:55 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 05/31/2023 11:37 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 14:55 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 14:55 |
| | Standard Methods 2510 B Field | | | | 05/31/2023 11:37 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/05/2023 10:21 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 11:37 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/01/2023 19:57 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 9:41 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 9:41 |
| | Standard Methods 4500-O G Field | | | | 05/31/2023 11:37 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 16:06 |
| | SW-846 9036 (Total) | | | | 06/02/2023 18:25 |
| | SW-846 9040B Field | | | | 05/31/2023 11:37 |
| | SW-846 9214 (Total) | | | | 06/05/2023 11:31 |
| | SW-846 9251 (Total) | | | | 06/02/2023 18:26 |
| 23051600-009B | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 9:49 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 9:49 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 11:37 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/01/2023 19:48 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 9:01 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 9:01 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:23 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 12:20 |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 10:26 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 12:26 |
| 23051600-009C | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/05/2023 17:37 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/07/2023 9:14 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/15/2023 10:44 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/01/2023 18:35 | 06/05/2023 17:47 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:28 | 06/05/2023 10:25 |
| 23051600-009D | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:34 | 06/07/2023 11:44 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 8:34 | 06/05/2023 14:58 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 8:28 | 06/05/2023 10:27 |
| 23051600-009E | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 14:25 |
| 23051600-009F | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/12/2023 13:05 |
| | SW-846 9066 (Total) | | | | 06/06/2023 10:38 |
| 23051600-009G | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 12:56 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23051600-009H | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 06/05/2023 9:55 |
| 23051600-009I | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/01/2023 22:55 |
| 23051600-010A | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | Ferrous Iron by CHEMets Kit | | | | 05/31/2023 12:04 |
| | Field Elevation Measurements | | | | 05/31/2023 12:04 |
| | Standard Methods 2130 B Field | | | | 05/31/2023 12:04 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 15:02 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 05/31/2023 12:04 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 15:02 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 15:02 |
| | Standard Methods 2510 B Field | | | | 05/31/2023 12:04 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/05/2023 10:22 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 12:04 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/01/2023 19:57 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 9:25 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 9:25 |
| | Standard Methods 4500-O G Field | | | | 05/31/2023 12:04 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 16:32 |
| | SW-846 9036 (Total) | | | | 06/02/2023 18:33 |
| | SW-846 9040B Field | | | | 05/31/2023 12:04 |
| | SW-846 9214 (Total) | | | | 06/05/2023 11:32 |
| | SW-846 9251 (Total) | | | | 06/02/2023 18:34 |
| 23051600-010B | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 9:54 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 9:54 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 12:04 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/01/2023 19:49 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 9:03 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 9:03 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:23 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 12:45 |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 10:27 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 12:45 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23051600-010C | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/05/2023 17:44 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/07/2023 9:19 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/15/2023 10:48 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/01/2023 18:35 | 06/05/2023 17:52 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:28 | 06/05/2023 10:29 |
| 23051600-010D | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:34 | 06/07/2023 11:45 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 8:34 | 06/05/2023 15:03 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 8:28 | 06/05/2023 10:32 |
| 23051600-010E | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 12:15 |
| 23051600-010F | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/12/2023 13:12 |
| | SW-846 9066 (Total) | | | | 06/06/2023 10:43 |
| 23051600-010G | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 14:37 |
| 23051600-010H | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 06/05/2023 10:28 |
| 23051600-010I | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/01/2023 23:19 |
| 23051600-011A | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 9:40 |
| | Field Elevation Measurements | | | | 06/01/2023 9:40 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 9:40 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 9:40 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/06/2023 10:01 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:01 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 9:40 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 11:41 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 9:40 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:57 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 14:13 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 14:13 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 9:40 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 14:22 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9036 (Total) | | | | 06/06/2023 23:15 |
| | SW-846 9040B Field | | | | 06/01/2023 9:40 |
| | SW-846 9214 (Total) | | | | 06/05/2023 10:29 |
| | SW-846 9251 (Total) | | | | 06/06/2023 23:15 |
| 23051600-011B | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 11:03 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 11:03 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 22:08 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:20 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:20 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 15:52 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 17:30 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 0:49 |
| 23051600-011C | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 12:08 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 9:23 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/15/2023 15:13 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/05/2023 23:39 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 19:51 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 13:18 |
| | SW-846 7470A (Total) | | | 06/02/2023 13:47 | 06/05/2023 11:48 |
| 23051600-011D | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:30 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:14 |
| 23051600-011E | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 21:10 |
| 23051600-011F | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 14:55 |
| 23051600-012A | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 10:08 |
| | Field Elevation Measurements | | | | 06/01/2023 10:08 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 10:08 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 10:08 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/06/2023 10:06 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:06 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 10:08 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 11:42 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 10:08 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:57 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:34 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:34 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 10:08 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 14:23 |
| | SW-846 9036 (Total) | | | | 06/06/2023 23:20 |
| | SW-846 9040B Field | | | | 06/01/2023 10:08 |
| | SW-846 9214 (Total) | | | | 06/05/2023 10:38 |
| | SW-846 9251 (Total) | | | | 06/06/2023 23:20 |
| 23051600-012B | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 11:08 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 11:08 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:49 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:36 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:36 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 15:53 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 17:35 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 0:57 |
| 23051600-012C | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 12:10 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 9:25 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/15/2023 15:17 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/05/2023 23:44 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 19:57 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 13:24 |
| | SW-846 7470A (Total) | | | 06/02/2023 13:47 | 06/05/2023 11:51 |
| 23051600-012D | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:31 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:15 |
| 23051600-012E | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 22:00 |
| 23051600-012F | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 15:02 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23051600-031A | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |
| | Ferrous Iron by CHEMets Kit | | | | 05/31/2023 11:00 |
| | Field Elevation Measurements | | | | 05/31/2023 11:00 |
| | Standard Methods 2130 B Field | | | | 05/31/2023 11:00 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 05/31/2023 11:00 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 16:32 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 16:32 |
| | Standard Methods 2510 B Field | | | | 05/31/2023 11:00 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/05/2023 12:09 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 11:00 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/01/2023 20:00 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 9:30 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 9:30 |
| | Standard Methods 4500-O G Field | | | | 05/31/2023 11:00 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 17:25 |
| | SW-846 9036 (Total) | | | | 06/02/2023 21:37 |
| | SW-846 9040B Field | | | | 05/31/2023 11:00 |
| | SW-846 9214 (Total) | | | | 06/05/2023 12:09 |
| | SW-846 9251 (Total) | | | | 06/02/2023 21:38 |
| 23051600-031B | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 12:19 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 12:19 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/01/2023 19:54 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 9:21 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 9:21 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:13 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 15:30 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 15:30 |
| 23051600-031C | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/05/2023 17:58 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/07/2023 9:40 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:35 | 06/15/2023 14:14 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/01/2023 18:35 | 06/05/2023 20:24 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:31 | 06/05/2023 12:56 |
| 23051600-031D | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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 (Dissolved) | | | 06/02/2023 8:34 | 06/07/2023 12:10 |
| 23051600-031E | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/09/2023 0:57 |
| 23051600-031F | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 18:37 |
| 23051600-032A | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | Ferrous Iron by CHEMets Kit | | | | 05/31/2023 9:56 |
| | Field Elevation Measurements | | | | 05/31/2023 9:56 |
| | Standard Methods 2130 B Field | | | | 05/31/2023 9:56 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 05/31/2023 9:56 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 16:38 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 16:38 |
| | Standard Methods 2510 B Field | | | | 05/31/2023 9:56 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/05/2023 12:09 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 9:56 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/01/2023 20:01 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 8:26 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 8:26 |
| | Standard Methods 4500-O G Field | | | | 05/31/2023 9:56 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 17:26 |
| | SW-846 9036 (Total) | | | | 06/02/2023 22:01 |
| | SW-846 9040B Field | | | | 05/31/2023 9:56 |
| | SW-846 9214 (Total) | | | | 06/05/2023 12:18 |
| | SW-846 9251 (Total) | | | | 06/02/2023 22:02 |
| 23051600-032B | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 12:25 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 12:25 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/01/2023 19:54 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 8:10 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 8:10 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:13 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 15:38 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 15:38 |
| 23051600-032C | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/05/2023 16:53 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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) | | | 06/01/2023 18:36 | 06/09/2023 11:03 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/15/2023 12:00 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/01/2023 18:36 | 06/05/2023 16:43 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:31 | 06/05/2023 12:58 |
| 23051600-032D | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:42 | 06/06/2023 16:13 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:42 | 06/07/2023 9:47 |
| 23051600-032E | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/09/2023 1:16 |
| 23051600-032F | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 18:44 |
| 23051600-036A | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 10:29 |
| | Field Elevation Measurements | | | | 06/01/2023 10:29 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 10:29 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 10:29 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/06/2023 10:40 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:40 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 10:29 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 11:42 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 10:29 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:59 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:41 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:41 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 10:29 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 15:04 |
| | SW-846 9036 (Total) | | | | 06/07/2023 0:23 |
| | SW-846 9040B Field | | | | 06/01/2023 10:29 |
| | SW-846 9214 (Total) | | | | 06/05/2023 10:51 |
| | SW-846 9251 (Total) | | | | 06/07/2023 0:24 |
| 23051600-036B | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:07 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:07 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:50 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:42 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:42 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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 | | | | 06/02/2023 16:38 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 18:11 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 18:11 |
| 23051600-036C | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 13:07 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 10:22 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/15/2023 15:24 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 0:37 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 20:08 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 15:00 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/09/2023 6:13 |
| | SW-846 7470A (Total) | | | 06/02/2023 13:47 | 06/05/2023 12:11 |
| 23051600-036D | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:34 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:22 |
| 23051600-036E | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 19:09 |
| 23051600-036F | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/09/2023 1:42 |
| 23051600-037A | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | Ferrous Iron by CHEMets Kit | | | | 05/31/2023 10:27 |
| | Field Elevation Measurements | | | | 05/31/2023 10:27 |
| | Standard Methods 2130 B Field | | | | 05/31/2023 10:27 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 05/31/2023 10:27 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 17:04 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 17:04 |
| | Standard Methods 2510 B Field | | | | 05/31/2023 10:27 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/05/2023 12:11 |
| | Standard Methods 2550 B Field | | | | 05/31/2023 10:27 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/01/2023 20:07 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 8:59 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 8:59 |
| | Standard Methods 4500-O G Field | | | | 05/31/2023 10:27 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 17:30 |
| | SW-846 9036 (Total) | | | | 06/02/2023 23:03 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9040B Field | | | | 05/31/2023 10:27 |
| | SW-846 9214 (Total) | | | | 06/05/2023 12:27 |
| | SW-846 9251 (Total) | | | | 06/02/2023 23:03 |
| 23051600-037B | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:13 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:13 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/01/2023 19:55 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 8:46 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 8:46 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:26 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 16:41 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 16:42 |
| 23051600-037C | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/05/2023 17:11 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/09/2023 12:20 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/15/2023 14:29 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/01/2023 18:36 | 06/05/2023 17:57 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:31 | 06/05/2023 13:08 |
| 23051600-037D | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:42 | 06/06/2023 16:16 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:42 | 06/07/2023 9:50 |
| 23051600-037E | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/09/2023 2:32 |
| 23051600-037F | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 19:16 |
| 23051600-038A | HEN-55 | 05/30/2023 14:38 | 06/01/2023 12:08 | | |
| | Field Elevation Measurements | | | | 05/30/2023 14:38 |
| 23051600-039A | HEN-XPW01-pore | 06/01/2023 8:58 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 8:58 |
| | Field Elevation Measurements | | | | 06/01/2023 8:58 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 8:58 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 8:58 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 13:19 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 13:19 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 8:58 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 10:56 |

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Standard Methods 2550 B Field | | | | 06/01/2023 8:58 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:54 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:43 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:43 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 8:58 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 15:05 |
| | SW-846 9036 (Total) | | | | 06/07/2023 0:26 |
| | SW-846 9040B Field | | | | 06/01/2023 8:58 |
| | SW-846 9251 (Total) | | | | 06/07/2023 0:27 |
| 23051600-039B | HEN-XPW01-pore | 06/01/2023 8:58 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:26 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:26 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:52 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:51 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:51 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 16:49 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 18:13 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 18:14 |
| 23051600-039C | HEN-XPW01-pore | 06/01/2023 8:58 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 13:09 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 10:23 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/08/2023 13:54 |
| 23051600-039D | HEN-XPW01-pore | 06/01/2023 8:58 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:35 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:23 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/08/2023 11:49 |
| 23051600-039E | HEN-XPW01-pore | 06/01/2023 8:58 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 19:22 |
| 23051600-039F | HEN-XPW01-pore | 06/01/2023 8:58 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/09/2023 2:39 |
| 23051600-040A | HEN-XPW02-pore | 06/01/2023 9:25 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 9:25 |
| | Field Elevation Measurements | | | | 06/01/2023 9:25 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 9:25 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 9:25 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 13:33 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 13:33 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 9:25 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 10:57 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 9:25 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:54 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:58 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 12:58 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 9:25 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 15:45 |
| | SW-846 9036 (Total) | | | | 06/07/2023 0:50 |
| | SW-846 9040B Field | | | | 06/01/2023 9:25 |
| | SW-846 9251 (Total) | | | | 06/07/2023 0:46 |
| 23051600-040B | HEN-XPW02-pore | 06/01/2023 9:25 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:42 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:42 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:53 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:07 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:07 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 16:38 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 18:21 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 18:17 |
| 23051600-040C | HEN-XPW02-pore | 06/01/2023 9:25 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 13:10 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 10:25 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/08/2023 13:55 |
| 23051600-040D | HEN-XPW02-pore | 06/01/2023 9:25 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:36 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:24 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/08/2023 11:49 |
| 23051600-040E | HEN-XPW02-pore | 06/01/2023 9:25 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/09/2023 2:45 |
| 23051600-040F | HEN-XPW02-pore | 06/01/2023 9:25 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 19:28 |
| 23051600-041A | HEN-XPW03-pore | 06/01/2023 9:52 | 06/01/2023 16:00 | | |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 9:52 |
| | Field Elevation Measurements | | | | 06/01/2023 9:52 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 9:52 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 9:52 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/05/2023 14:17 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/05/2023 14:17 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 9:52 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 10:57 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 9:52 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:55 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 13:01 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 13:01 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 9:52 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 15:05 |
| | SW-846 9036 (Total) | | | | 06/07/2023 0:58 |
| | SW-846 9040B Field | | | | 06/01/2023 9:52 |
| | SW-846 9251 (Total) | | | | 06/07/2023 0:53 |
| 23051600-041B | HEN-XPW03-pore | 06/01/2023 9:52 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:51 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/05/2023 13:51 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:53 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:05 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:05 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 16:38 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 18:28 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 18:24 |
| 23051600-041C | HEN-XPW03-pore | 06/01/2023 9:52 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 13:12 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 10:26 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/08/2023 13:57 |
| 23051600-041D | HEN-XPW03-pore | 06/01/2023 9:52 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:40 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:24 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/08/2023 11:50 |
| 23051600-041E | HEN-XPW03-pore | 06/01/2023 9:52 | 06/01/2023 16:00 | | |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9060 | | | | 06/09/2023 3:03 |
| 23051600-041F | HEN-XPW03-pore | 06/01/2023 9:52 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 20:19 |
| 23051600-042A | HEN-XSG01 | 05/30/2023 14:03 | 06/01/2023 12:08 | | |
| | Field Elevation Measurements | | | | 05/30/2023 14:03 |
| 23051600-043A | HEN-YSG-ILRIVER | 05/30/2023 13:21 | 06/01/2023 12:08 | | |
| | Field Elevation Measurements | | | | 05/30/2023 13:21 |
| 23051600-044A | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:50 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/06/2023 10:50 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:50 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 11:43 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 11:52 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 10:44 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 10:44 |
| | Standard Methods 4500-P E 1999 | | | | 06/01/2023 16:00 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/01/2023 17:30 |
| | SW-846 9036 (Total) | | | | 06/02/2023 23:09 |
| | SW-846 9214 (Total) | | | | 06/05/2023 11:01 |
| | SW-846 9251 (Total) | | | | 06/02/2023 23:11 |
| 23051600-044B | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | EPA 314.0 | | | | 06/14/2023 17:15 |
| 23051600-044C | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 10:53 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 10:53 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 11:52 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 10:46 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 10:46 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/01/2023 18:26 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/01/2023 16:00 |
| | SW-846 9036 (Dissolved) | | | | 06/02/2023 16:49 |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 11:04 |
| | SW-846 9251 (Dissolved) | | | | 06/02/2023 16:50 |
| 23051600-044D | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/05/2023 17:02 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/12/2023 17:15 | 06/14/2023 17:41 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/01/2023 18:36 | 06/15/2023 15:05 |

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-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) | | | 06/01/2023 18:36 | 06/05/2023 17:20 |
| | SW-846 7470A (Total) | | | 06/02/2023 8:31 | 06/05/2023 13:10 |
| 23051600-044E | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:42 | 06/06/2023 16:20 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 8:42 | 06/07/2023 9:55 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 8:42 | 06/05/2023 16:22 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 8:31 | 06/05/2023 13:12 |
| 23051600-044F | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 15:08 |
| 23051600-044G | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/12/2023 13:31 |
| | SW-846 9066 (Total) | | | | 06/06/2023 10:52 |
| 23051600-044H | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | SW-846 9060 | | | | 06/08/2023 20:25 |
| 23051600-044I | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 06/05/2023 10:33 |
| 23051600-044J | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/01/2023 20:52 |
| 23051600-045A | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | Ferrous Iron by CHEMets Kit | | | | 06/01/2023 8:54 |
| | Field Elevation Measurements | | | | 06/01/2023 8:54 |
| | Standard Methods 2130 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:56 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 06/06/2023 10:56 |
| | Standard Methods 2320 B 1997, 2011 | | | | 06/06/2023 10:56 |
| | Standard Methods 2510 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 06/06/2023 11:43 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 06/02/2023 21:59 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 13:03 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 06/02/2023 13:03 |
| | Standard Methods 4500-O G Field | | | | 06/01/2023 8:54 |
| | Standard Methods 4500-P E 1999 | | | | 06/02/2023 14:17 |
| | Standard Methods 4500-P E 1999, 2011 | | | | 06/02/2023 15:47 |
| | SW-846 9036 (Total) | | | | 06/07/2023 1:06 |
| | SW-846 9040B Field | | | | 06/01/2023 8:54 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| | SW-846 9214 (Total) | | | | 06/05/2023 11:07 |
| | SW-846 9251 (Total) | | | | 06/07/2023 1:07 |
| 23051600-045B | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | EPA 314.0 | | | | 06/14/2023 18:16 |
| 23051600-045C | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 11:02 |
| | Standard Methods 2320 B (Dissolved) 1997, 2011 | | | | 06/06/2023 11:02 |
| | Standard Methods 2550 B Field | | | | 06/01/2023 8:54 |
| | Standard Methods 4500-NO2 B (Dissolved) 2000, 2011 | | | | 06/02/2023 21:51 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:40 |
| | Standard Methods 4500-NO3 F (Dissolved) 2000, 2011 | | | | 06/02/2023 13:40 |
| | Standard Methods 4500-P E (Dissolved) 1999, 2011 | | | | 06/02/2023 16:39 |
| | Standard Methods 4500-P E (Dissolved) 1999 | | | | 06/02/2023 14:17 |
| | SW-846 9036 (Dissolved) | | | | 06/06/2023 20:11 |
| | SW-846 9214 (Dissolved) | | | | 06/05/2023 11:10 |
| | SW-846 9251 (Dissolved) | | | | 06/06/2023 20:16 |
| 23051600-045D | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/06/2023 13:13 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/07/2023 10:28 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 06/02/2023 12:45 | 06/15/2023 15:30 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/06/2023 0:42 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 0:06 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/07/2023 15:07 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 06/02/2023 12:45 | 06/09/2023 2:45 |
| | SW-846 7470A (Total) | | | 06/02/2023 13:47 | 06/05/2023 12:13 |
| 23051600-045E | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/06/2023 16:42 |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 11:31 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 1:00 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/07/2023 13:50 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 06/02/2023 13:17 | 06/09/2023 2:58 |
| | SW-846 7470A (Dissolved) | | | 06/02/2023 13:47 | 06/05/2023 12:15 |
| 23051600-045F | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 9012A (Total) | | | 06/02/2023 17:45 | 06/05/2023 15:13 |
| 23051600-045G | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/09/2023 3:10 |
| | SW-846 9066 (Total) | | | | 06/06/2023 11:00 |

Teklab, Inc.
Environmental Laboratory

# Dates Report



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | **Test Name** | | | **Prep Date/Time** | **Analysis Date/Time** |
| 23051600-045H | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 9060 | | | | 06/08/2023 20:31 |
| 23051600-045I | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | Standard Methods 4500-NH3 G (Total) 1997, 2011 | | | | 06/05/2023 18:37 |
| 23051600-045J | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS | | | | 06/02/2023 21:33 |

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Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 2510 B FIELD

**Batch** R329806 **SampType:** LCS Units **µS/cm**
SampID: LCS-R329806

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Spec. Conductance, Field | * | 0 | | **1430** | 1412 | 0 | 101.2 | 90 | 110 | 05/31/2023 |
| Spec. Conductance, Field | * | 0 | | **1410** | 1412 | 0 | 100.1 | 90 | 110 | 05/31/2023 |
| Spec. Conductance, Field | * | 0 | | **1410** | 1412 | 0 | 100.1 | 90 | 110 | 06/01/2023 |
| Spec. Conductance, Field | * | 0 | | **1410** | 1412 | 0 | 100.1 | 90 | 110 | 06/01/2023 |

## SW-846 9040B FIELD

**Batch** R329806 **SampType:** LCS Units
SampID: LCS-R329806

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| pH | * | 1.00 | | **7.09** | 7.000 | 0 | 101.3 | 98.57 | 101.4 | 05/31/2023 |
| pH | * | 1.00 | | **7.08** | 7.000 | 0 | 101.1 | 98.57 | 101.4 | 05/31/2023 |
| pH | * | 1.00 | | **7.10** | 7.000 | 0 | 101.4 | 98.57 | 101.4 | 06/01/2023 |
| pH | * | 1.00 | | **7.07** | 7.000 | 0 | 101.0 | 98.57 | 101.4 | 06/01/2023 |

## STANDARD METHODS 2320 B 1997, 2011

**Batch** R329791 **SampType:** MBLK Units **mg/L**
SampID: MBLK

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **0** | | | | | | 06/05/2023 |

**Batch** R329791 **SampType:** LCS Units **mg/L**
SampID: LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **232** | 233.0 | 0 | 99.6 | 90 | 110 | 06/05/2023 |

**Batch** R329835 **SampType:** MBLK Units **mg/L**
SampID: MBLK

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **0** | | | | | | 06/06/2023 |

**Batch** R329835 **SampType:** LCS Units **mg/L**
SampID: LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Alkalinity, Total (as CaCO3) | | 0 | | **235** | 233.0 | 0 | 100.9 | 90 | 110 | 06/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 2540 C (TOTAL) 1997, 2011

**Batch** R329833 **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 | 06/05/2023 |
| Total Dissolved Solids | | 20 | | **< 20** | 16.00 | 0 | 0 | -100 | 100 | 06/05/2023 |

**Batch** R329833 **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 | | **906** | 1000 | 0 | 90.6 | 90 | 110 | 06/05/2023 |
| Total Dissolved Solids | | 20 | | **926** | 1000 | 0 | 92.6 | 90 | 110 | 06/05/2023 |

**Batch** R329833 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23051600-017ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 50 | | **615** | | | | 640.0 | 3.98 | 06/05/2023 |

**Batch** R329833 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23051600-031ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **492** | | | | 464.0 | 5.86 | 06/05/2023 |

**Batch** R329904 **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 | 06/06/2023 |

**Batch** R329904 **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 | 06/06/2023 |

**Batch** R329904 **SampType:** DUP Units **mg/L** RPD Limit: **10**
SampID: 23051600-039ADUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | 20 | | **588** | | | | 538.0 | 8.88 | 06/06/2023 |

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Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-NH3 G (TOTAL) 1997, 2011

**Batch** R329804 **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 | 06/05/2023 |

**Batch** R329804 **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 | | **1.05** | 1.000 | 0 | 104.7 | 90 | 110 | 06/05/2023 |

**Batch** R329804 **SampType:** MS Units **mg/L**
SampID: 23051600-009HMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia (as N) | | 0.10 | | **1.83** | 2.000 | 0 | 91.6 | 90 | 110 | 06/05/2023 |

**Batch** R329804 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-009HMSD

| 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 | 91.4 | 1.832 | 0.16 | 06/05/2023 |

## STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

**Batch** R329648 **SampType:** MS Units **mg/L**
SampID: 23051600-009BMS

| 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 | 105.8 | 85 | 115 | 06/01/2023 |

**Batch** R329648 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-009BMSD

| 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 | 106.0 | 0.5290 | 0.19 | 06/01/2023 |

**Batch** R329648 **SampType:** MS Units **mg/L**
SampID: 23051600-010BMS

| 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 | 105.6 | 85 | 115 | 06/01/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

**Batch** R329648 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-010BMSD

| 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 | 0.5280 | 0.19 | 06/01/2023 |

**Batch** R329648 **SampType:** MS Units **mg/L**
SampID: 23051600-014CMS

| 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 | 89.8 | 85 | 115 | 06/02/2023 |

**Batch** R329648 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-014CMSD

| 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 | 0.4490 | 2.64 | 06/02/2023 |

**Batch** R329648 **SampType:** MS Units **mg/L**
SampID: 23051600-015BMS

| 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 | 105.2 | 85 | 115 | 06/01/2023 |

**Batch** R329648 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-015BMSD

| 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 | 105.2 | 0.5260 | 0.00 | 06/01/2023 |

**Batch** R329713 **SampType:** MS Units **mg/L**
SampID: 23051600-005CMS

| 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 | 104.4 | 85 | 115 | 06/02/2023 |

**Batch** R329713 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-005CMSD

| 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 | 0.5220 | 1.33 | 06/02/2023 |

**Batch** R329713 **SampType:** MS Units **mg/L**
SampID: 23051600-006CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite (as N) | | 0.05 | | **0.70** | 0.5000 | 0.1790 | 103.8 | 85 | 115 | 06/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

**Batch** R329713 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-006CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite (as N) | | 0.05 | | **0.70** | 0.5000 | 0.1790 | 104.4 | 0.6980 | 0.43 | 06/02/2023 |

**Batch** R329713 **SampType:** MS Units **mg/L**
SampID: 23051600-011BMS

| 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 | 105.0 | 85 | 115 | 06/02/2023 |

**Batch** R329713 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-011BMSD

| 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 | 105.0 | 0.5250 | 0.00 | 06/02/2023 |

## STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

**Batch** R329648 **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 | 06/01/2023 |

**Batch** R329648 **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 | | **0.66** | 0.6510 | 0 | 102.2 | 90 | 110 | 06/01/2023 |

**Batch** R329648 **SampType:** MS Units **mg/L**
SampID: 23051600-004AMS

| 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 | 95.4 | 85 | 115 | 06/02/2023 |

**Batch** R329648 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-004AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrite (as N) | | 0.05 | SR | **0.42** | 0.5000 | 0 | 84.6 | 0.4770 | 12.00 | 06/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-NO2 B (TOTAL) 2000, 2011

**Batch** R329648 **SampType:** MS Units **mg/L**
SampID: 23051600-033AMS

| 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 | 97.6 | 85 | 115 | 06/02/2023 |

**Batch** R329648 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-033AMSD

| 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 | 92.8 | 0.4880 | 5.04 | 06/02/2023 |

**Batch** R329713 **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 | 06/02/2023 |

**Batch** R329713 **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 | | **0.68** | 0.6510 | 0 | 105.2 | 90 | 110 | 06/02/2023 |

## STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-002CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.500 | | **4.98** | 2.500 | 2.705 | 90.9 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-002CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.500 | | **5.03** | 2.500 | 2.705 | 92.9 | 4.977 | 1.02 | 06/02/2023 |

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-032BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.500 | | **6.14** | 2.500 | 3.849 | 91.6 | 85 | 115 | 06/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-032BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.500 | | **6.11** | 2.500 | 3.849 | 90.5 | 6.140 | 0.46 | 06/02/2023 |

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-036BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.500 | | **6.15** | 2.500 | 3.884 | 90.6 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-036BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.500 | | **6.08** | 2.500 | 3.884 | 87.9 | 6.148 | 1.10 | 06/02/2023 |

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-040BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.100 | | **0.763** | 0.5000 | 0.2830 | 96.0 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-040BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.100 | | **0.744** | 0.5000 | 0.2830 | 92.2 | 0.7630 | 2.52 | 06/02/2023 |

## STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

**Batch** R329727 **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** | | | | | | 06/02/2023 |
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | **< 0.050** | 0.0090 | 0 | 0 | -100 | 100 | 06/02/2023 |

**Batch** R329727 **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 | | **0.469** | 0.5000 | 0 | 93.8 | 90 | 110 | 06/02/2023 |

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Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## STANDARD METHODS 4500-NO3 F (TOTAL) 2000, 2011

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-007AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 1.00 | | **13.8** | 5.000 | 9.093 | 94.9 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-007AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 1.00 | | **13.7** | 5.000 | 9.093 | 92.4 | 13.84 | 0.94 | 06/02/2023 |

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-011AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 1.00 | | **10.6** | 5.000 | 6.001 | 91.2 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-011AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 1.00 | | **10.4** | 5.000 | 6.001 | 88.0 | 10.56 | 1.52 | 06/02/2023 |

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-027AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.250 | | **4.14** | 1.250 | 2.934 | 96.4 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-027AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.250 | S | **3.99** | 1.250 | 2.934 | 84.6 | 4.139 | 3.64 | 06/02/2023 |

**Batch** R329727 **SampType:** MS Units **mg/L**
SampID: 23051600-035AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | **0.245** | 0.2500 | 0.01700 | 91.2 | 85 | 115 | 06/02/2023 |

**Batch** R329727 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-035AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | **0.250** | 0.2500 | 0.01700 | 93.2 | 0.2450 | 2.02 | 06/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-P E 1999, 2011

**Batch** R329742 **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 | 06/01/2023 |

**Batch** R329742 **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 | | **0.107** | 0.1000 | 0 | 107.0 | 90 | 110 | 06/01/2023 |

**Batch** R329742 **SampType:** MS Units **mg/L**
SampID: 23051600-002AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.061** | 0.0500 | 0.009000 | 104.0 | 85 | 115 | 06/01/2023 |

**Batch** R329742 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-002AMSD

| 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 | 0.009000 | 94.0 | 0.06100 | 8.55 | 06/01/2023 |

**Batch** R329742 **SampType:** MS Units **mg/L**
SampID: 23051600-007AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.080** | 0.0500 | 0.03000 | 100.0 | 85 | 115 | 06/01/2023 |

**Batch** R329742 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-007AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.083** | 0.0500 | 0.03000 | 106.0 | 0.08000 | 3.68 | 06/01/2023 |

**Batch** R329742 **SampType:** MS Units **mg/L**
SampID: 23051600-009AMS

| 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 | 0.01600 | 92.0 | 85 | 115 | 06/01/2023 |

**Batch** R329742 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-009AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.061** | 0.0500 | 0.01600 | 90.0 | 0.06200 | 1.63 | 06/01/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-P E 1999, 2011

**Batch** R329742 **SampType:** MS Units **mg/L**
SampID: 23051600-010AMS

| 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 | 06/01/2023 |

**Batch** R329742 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-010AMSD

| 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 | 0.04900 | 9.71 | 06/01/2023 |

**Batch** R329742 **SampType:** MS Units **mg/L**
SampID: 23051600-013AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.067** | 0.0500 | 0.01600 | 102.0 | 85 | 115 | 06/01/2023 |

**Batch** R329742 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-013AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.062** | 0.0500 | 0.01600 | 92.0 | 0.06700 | 7.75 | 06/01/2023 |

**Batch** R329742 **SampType:** MS Units **mg/L**
SampID: 23051600-014AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.113** | 0.0500 | 0.05900 | 108.0 | 85 | 115 | 06/01/2023 |

**Batch** R329742 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-014AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.116** | 0.0500 | 0.05900 | 114.0 | 0.1130 | 2.62 | 06/01/2023 |

**Batch** R329746 **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 | 06/02/2023 |

**Batch** R329746 **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 | 06/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## STANDARD METHODS 4500-P E 1999, 2011

**Batch** R329746 **SampType:** MS Units **mg/L**
SampID: 23051600-005AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | S | **0.047** | 0.0500 | 0.02000 | 54.0 | 85 | 115 | 06/02/2023 |

**Batch** R329746 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-005AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | SR | **0.052** | 0.0500 | 0.02000 | 64.0 | 0.04700 | 10.10 | 06/02/2023 |

**Batch** R329746 **SampType:** MS Units **mg/L**
SampID: 23051600-006AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.044** | 0.0500 | 0 | 88.0 | 85 | 115 | 06/02/2023 |

**Batch** R329746 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-006AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phosphorus, Orthophosphate (as P) | * | 0.010 | | **0.048** | 0.0500 | 0 | 96.0 | 0.04400 | 8.70 | 06/02/2023 |

## SW-846 9012A (TOTAL)

**Batch** 206887 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230602 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 | 06/05/2023 |

**Batch** 206887 **SampType:** LCS Units **mg/L**
SampID: LCS 230602 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 | 106.7 | 90 | 110 | 06/05/2023 |

**Batch** 206887 **SampType:** MS Units **mg/L**
SampID: 23051600-001EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.033** | 0.0250 | 0.006700 | 104.9 | 75 | 125 | 06/05/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 9012A (TOTAL)

**Batch** 206887 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-001EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.031** | 0.0250 | 0.006700 | 97.2 | 0.03292 | 6.04 | 06/05/2023 |

**Batch** 206887 **SampType:** MS Units **mg/L**
SampID: 23051600-010EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.027** | 0.0250 | 0 | 107.9 | 75 | 125 | 06/05/2023 |

**Batch** 206887 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-010EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Cyanide | | 0.005 | | **0.027** | 0.0250 | 0 | 108.6 | 0.02696 | 0.70 | 06/05/2023 |

## SW-846 9036 (DISSOLVED)

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-004BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **164** | 100.0 | 77.76 | 86.1 | 85 | 115 | 06/02/2023 |

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-004BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **169** | 100.0 | 77.76 | 91.4 | 163.9 | 3.16 | 06/02/2023 |

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-017BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **194** | 100.0 | 101.8 | 92.1 | 85 | 115 | 06/02/2023 |

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-017BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **198** | 100.0 | 101.8 | 96.5 | 193.9 | 2.24 | 06/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 9036 (DISSOLVED)

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-034BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | S | **172** | 100.0 | 89.14 | 83.0 | 85 | 115 | 06/02/2023 |

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-034BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **182** | 100.0 | 89.14 | 92.8 | 172.2 | 5.54 | 06/02/2023 |

**Batch** R329893 **SampType:** MS Units **mg/L**
SampID: 23051600-005CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 20 | E | **130** | 40.00 | 94.54 | 88.4 | 85 | 115 | 06/06/2023 |

**Batch** R329893 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-005CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 20 | E | **132** | 40.00 | 94.54 | 94.5 | 129.9 | 1.85 | 06/06/2023 |

**Batch** R329893 **SampType:** MS Units **mg/L**
SampID: 23051600-030CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **186** | 100.0 | 87.30 | 98.4 | 85 | 115 | 06/07/2023 |

**Batch** R329893 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-030CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **184** | 100.0 | 87.30 | 96.4 | 185.7 | 1.07 | 06/07/2023 |

## SW-846 9036 (TOTAL)

**Batch** R329716 **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 | 06/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9036 (TOTAL)

**Batch** R329716 **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 | 06/02/2023 |

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-008AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **165** | 100.0 | 79.56 | 85.2 | 85 | 115 | 06/02/2023 |

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-008AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **165** | 100.0 | 79.56 | 85.5 | 164.8 | 0.18 | 06/02/2023 |

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-013AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 100 | | **313** | 200.0 | 142.9 | 85.1 | 85 | 115 | 06/02/2023 |

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-013AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 100 | | **320** | 200.0 | 142.9 | 88.5 | 313.2 | 2.15 | 06/02/2023 |

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-021AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **211** | 100.0 | 117.8 | 93.3 | 85 | 115 | 06/02/2023 |

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-021AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **206** | 100.0 | 117.8 | 87.9 | 211.1 | 2.61 | 06/02/2023 |

**Batch** R329716 **SampType:** MS Units **mg/L**
SampID: 23051600-034AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **180** | 100.0 | 88.17 | 92.3 | 85 | 115 | 06/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 9036 (TOTAL)

**Batch** R329716 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-034AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **184** | 100.0 | 88.17 | 95.7 | 180.5 | 1.84 | 06/02/2023 |

**Batch** R329763 **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 | 06/03/2023 |

**Batch** R329763 **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 | 91.2 | 90 | 110 | 06/03/2023 |

**Batch** R329780 **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 | 06/05/2023 |

**Batch** R329780 **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 | 93.0 | 90 | 110 | 06/05/2023 |

**Batch** R329893 **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 | 06/06/2023 |

**Batch** R329893 **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 | 93.8 | 90 | 110 | 06/06/2023 |

**Batch** R329893 **SampType:** MS Units **mg/L**
SampID: 23051600-030AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **180** | 100.0 | 86.98 | 92.6 | 85 | 115 | 06/06/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9036 (TOTAL)

**Batch** R329893 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-030AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **183** | 100.0 | 86.98 | 95.9 | 179.6 | 1.84 | 06/06/2023 |

**Batch** R329925 **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 | 06/07/2023 |

**Batch** R329925 **SampType:** MBLK Units **mg/L**
SampID: MBLK 230531

| 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 | 06/07/2023 |

**Batch** R329925 **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 | 91.0 | 90 | 110 | 06/07/2023 |

**Batch** R329925 **SampType:** MS Units **mg/L**
SampID: 23051600-006AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **224** | 100.0 | 134.2 | 90.0 | 85 | 115 | 06/08/2023 |

**Batch** R329925 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-006AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | 50 | | **233** | 100.0 | 134.2 | 98.4 | 224.2 | 3.65 | 06/08/2023 |

## SW-846 9060

**Batch** R329995 **SampType:** MBLK Units **mg/L**
SampID: Filter Blank

| 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 | 06/08/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9060

**Batch** R329995 **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 | 06/08/2023 |

**Batch** R329995 **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 | 102.0 | 90 | 110 | 06/08/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-002GMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **6.8** | 5.000 | 2.020 | 95.8 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-002GMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **6.8** | 5.000 | 2.020 | 95.0 | 6.810 | 0.59 | 06/08/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-002HMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **7.5** | 5.000 | 2.750 | 95.4 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-002HMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **7.5** | 5.000 | 2.750 | 95.4 | 7.520 | 0.00 | 06/08/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-010GMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **9.2** | 5.000 | 4.140 | 101.0 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-010GMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **9.0** | 5.000 | 4.140 | 98.2 | 9.190 | 1.54 | 06/08/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 9060

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-011EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **7.3** | 5.000 | 2.370 | 98.2 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-011EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **7.3** | 5.000 | 2.370 | 98.0 | 7.280 | 0.14 | 06/08/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-018EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **7.8** | 5.000 | 3.200 | 92.0 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-018EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **8.1** | 5.000 | 3.200 | 98.6 | 7.800 | 4.14 | 06/08/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-024EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **5.9** | 5.000 | 0.9700 | 98.0 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-024EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **5.8** | 5.000 | 0.9700 | 96.2 | 5.870 | 1.55 | 06/09/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-024FMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **5.6** | 5.000 | 0.9100 | 94.4 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-024FMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **5.7** | 5.000 | 0.9100 | 95.8 | 5.630 | 1.24 | 06/08/2023 |

Teklab, Inc.
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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9060

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-031EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **6.2** | 5.000 | 1.240 | 99.8 | 85 | 115 | 06/09/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-031EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **6.1** | 5.000 | 1.240 | 97.8 | 6.230 | 1.62 | 06/09/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-036FMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **6.7** | 5.000 | 1.670 | 101.4 | 85 | 115 | 06/09/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-036FMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **6.7** | 5.000 | 1.670 | 99.8 | 6.740 | 1.19 | 06/09/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-040EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **8.2** | 5.000 | 2.990 | 104.4 | 85 | 115 | 06/09/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-040EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon (TOC) | | 1.0 | | **8.1** | 5.000 | 2.990 | 101.8 | 8.210 | 1.60 | 06/09/2023 |

**Batch** R329995 **SampType:** MS Units **mg/L**
SampID: 23051600-040FMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **8.1** | 5.000 | 2.700 | 107.2 | 85 | 115 | 06/08/2023 |

**Batch** R329995 **SampType:** MSD Units **mg/L** RPD Limit: **10**
SampID: 23051600-040FMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Organic Carbon | | 1.0 | | **7.8** | 5.000 | 2.700 | 103.0 | 8.060 | 2.64 | 06/08/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9060

**Batch** R330146 **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 | 06/12/2023 |

**Batch** R330146 **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 | | **4.8** | 5.000 | 0 | 95.8 | 90 | 110 | 06/12/2023 |

**Batch** R330486 **SampType:** MBLK Units **mg/L**
SampID: Filter Blank

| 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 | 06/20/2023 |

**Batch** R330486 **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 | 06/19/2023 |

**Batch** R330486 **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 | | **4.9** | 5.000 | 0 | 97.6 | 90 | 110 | 06/19/2023 |

## SW-846 9066 (TOTAL)

**Batch** R329815 **SampType:** MBLK Units **mg/L**
SampID: ICB/MBLK

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 0.005 | | **< 0.005** | 0.0028 | 0 | 0 | -100 | 100 | 06/06/2023 |

**Batch** R329815 **SampType:** LCS Units **mg/L**
SampID: ICV/LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 0.005 | | **0.052** | 0.0500 | 0 | 103.3 | 90 | 110 | 06/06/2023 |

Teklab, Inc.
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# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9066 (TOTAL)

**Batch** R329815 **SampType:** MS Units **µg/L**
SampID: 23051600-007GMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 5 | S | **27** | 50.00 | 8.780 | 37.3 | 85 | 115 | 06/06/2023 |

**Batch** R329815 **SampType:** MSD Units **µg/L** RPD Limit: **15**
SampID: 23051600-007GMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenols | | 5 | SR | **9** | 50.00 | 8.780 | 0.7 | 27.45 | 100.33 | 06/06/2023 |

## SW-846 9214 (DISSOLVED)

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-006CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.96** | 2.000 | 0.08500 | 93.8 | 75 | 125 | 06/05/2023 |

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-006CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.85** | 2.000 | 0.08500 | 88.2 | 1.961 | 5.93 | 06/05/2023 |

## SW-846 9214 (TOTAL)

**Batch** R329756 **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 | 06/05/2023 |

**Batch** R329756 **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 | 92.8 | 90 | 110 | 06/05/2023 |

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-007AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.81** | 2.000 | 0.08200 | 86.4 | 75 | 125 | 06/05/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 9214 (TOTAL)

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-007AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.83** | 2.000 | 0.08200 | 87.4 | 1.809 | 1.15 | 06/05/2023 |

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-011AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.08** | 2.000 | 0.2260 | 92.6 | 75 | 125 | 06/05/2023 |

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-011AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.02** | 2.000 | 0.2260 | 89.6 | 2.077 | 2.93 | 06/05/2023 |

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-017AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.76** | 2.000 | 0.09300 | 83.3 | 75 | 125 | 06/05/2023 |

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-017AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.86** | 2.000 | 0.09300 | 88.4 | 1.759 | 5.69 | 06/05/2023 |

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-031AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.89** | 2.000 | 0.1720 | 85.9 | 75 | 125 | 06/05/2023 |

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-031AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.93** | 2.000 | 0.1720 | 88.0 | 1.890 | 2.25 | 06/05/2023 |

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-036AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.03** | 2.000 | 0.2520 | 88.8 | 75 | 125 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9214 (TOTAL)

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-036AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **2.12** | 2.000 | 0.2520 | 93.2 | 2.027 | 4.30 | 06/05/2023 |

**Batch** R329756 **SampType:** MS Units **mg/L**
SampID: 23051600-037AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.96** | 2.000 | 0.2020 | 87.7 | 75 | 125 | 06/05/2023 |

**Batch** R329756 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-037AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Fluoride | | 0.10 | | **1.94** | 2.000 | 0.2020 | 86.7 | 1.956 | 1.03 | 06/05/2023 |

## SW-846 9251 (DISSOLVED)

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-004BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 40 | | **270** | 200.0 | 87.26 | 91.3 | 85 | 115 | 06/02/2023 |

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-004BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 40 | | **272** | 200.0 | 87.26 | 92.4 | 269.9 | 0.77 | 06/02/2023 |

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-017BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **198** | 100.0 | 104.2 | 94.2 | 85 | 115 | 06/02/2023 |

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-017BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **201** | 100.0 | 104.2 | 97.2 | 198.4 | 1.50 | 06/02/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 9251 (DISSOLVED)

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-034BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **177** | 100.0 | 90.22 | 86.4 | 85 | 115 | 06/02/2023 |

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-034BMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **184** | 100.0 | 90.22 | 94.0 | 176.6 | 4.19 | 06/02/2023 |

**Batch** R329817 **SampType:** MS Units **mg/L**
SampID: 23051600-005CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 8 | E | **104** | 40.00 | 64.10 | 98.9 | 85 | 115 | 06/06/2023 |

**Batch** R329817 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-005CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 8 | E | **101** | 40.00 | 64.10 | 91.6 | 103.7 | 2.87 | 06/06/2023 |

**Batch** R329848 **SampType:** MS Units **mg/L**
SampID: 23051600-030CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **225** | 100.0 | 125.0 | 100.4 | 85 | 115 | 06/07/2023 |

**Batch** R329848 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-030CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **224** | 100.0 | 125.0 | 98.9 | 225.5 | 0.67 | 06/07/2023 |

## SW-846 9251 (TOTAL)

**Batch** R329717 **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 | 06/02/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9251 (TOTAL)

**Batch** R329717 **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 | 104.2 | 90 | 110 | 06/02/2023 |

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-008AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **184** | 100.0 | 91.20 | 93.1 | 85 | 115 | 06/02/2023 |

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-008AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **179** | 100.0 | 91.20 | 88.2 | 184.3 | 2.70 | 06/02/2023 |

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-013AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **183** | 100.0 | 88.78 | 94.4 | 85 | 115 | 06/02/2023 |

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-013AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **180** | 100.0 | 88.78 | 90.9 | 183.2 | 1.96 | 06/02/2023 |

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-021AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **198** | 100.0 | 106.7 | 91.5 | 85 | 115 | 06/02/2023 |

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-021AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **193** | 100.0 | 106.7 | 86.5 | 198.2 | 2.56 | 06/02/2023 |

**Batch** R329717 **SampType:** MS Units **mg/L**
SampID: 23051600-034AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **187** | 100.0 | 90.31 | 96.3 | 85 | 115 | 06/02/2023 |

Teklab, Inc.
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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9251 (TOTAL)

**Batch** R329717 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-034AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **185** | 100.0 | 90.31 | 95.0 | 186.6 | 0.70 | 06/02/2023 |

**Batch** R329720 **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 | 06/03/2023 |

**Batch** R329720 **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 | 06/03/2023 |

**Batch** R329817 **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 | 06/05/2023 |

**Batch** R329817 **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 | 06/05/2023 |

**Batch** R329848 **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 | 06/06/2023 |

**Batch** R329848 **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 | 94.4 | 90 | 110 | 06/06/2023 |

**Batch** R329848 **SampType:** MS Units **mg/L**
SampID: 23051600-006AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **249** | 100.0 | 148.5 | 100.6 | 85 | 115 | 06/06/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 9251 (TOTAL)

**Batch** R329848 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-006AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | E | **253** | 100.0 | 148.5 | 104.0 | 249.1 | 1.38 | 06/06/2023 |

**Batch** R329848 **SampType:** MS Units **mg/L**
SampID: 23051600-030AMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **221** | 100.0 | 123.3 | 97.9 | 85 | 115 | 06/06/2023 |

**Batch** R329848 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-030AMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | 20 | | **220** | 100.0 | 123.3 | 96.7 | 221.2 | 0.57 | 06/06/2023 |

**Batch** R329955 **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 | 06/07/2023 |

**Batch** R329955 **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 | 96.2 | 90 | 110 | 06/07/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206871 **SampType:** MBLK Units **mg/L**

SampID: MBLK-206871

| 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 | 06/07/2023 |
| Antimony | | 0.0500 | | **< 0.0500** | 0.0068 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Cobalt | | 0.0050 | | **< 0.0050** | 0.0020 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0014 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Nickel | | 0.0050 | | **< 0.0050** | 0.0016 | 0 | 0 | -100 | 100 | 06/08/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Selenium | | 0.0400 | | **< 0.0400** | 0.0170 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Silicon | * | 0.0500 | | **< 0.0500** | 0.0400 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Silver | | 0.0070 | | **< 0.0070** | 0.0027 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Thallium | | 0.0500 | | **< 0.0500** | 0.0111 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Vanadium | | 0.0100 | | **< 0.0100** | 0.0009 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/07/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206871 **SampType:** LCS Units **mg/L**

SampID: LCS-206871

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.71** | 2.000 | 0 | 85.4 | 85 | 115 | 06/07/2023 |
| Antimony | | 0.0500 | | **0.433** | 0.5000 | 0 | 86.5 | 85 | 115 | 06/07/2023 |
| Arsenic | | 0.0250 | | **0.450** | 0.5000 | 0 | 89.9 | 85 | 115 | 06/07/2023 |
| Barium | | 0.0025 | | **1.80** | 2.000 | 0 | 90.0 | 85 | 115 | 06/07/2023 |
| Beryllium | | 0.0005 | | **0.0437** | 0.0500 | 0 | 87.4 | 85 | 115 | 06/07/2023 |
| Boron | | 0.0200 | | **0.439** | 0.5000 | 0 | 87.8 | 85 | 115 | 06/07/2023 |
| Cadmium | | 0.0020 | | **0.0455** | 0.0500 | 0 | 91.0 | 85 | 115 | 06/07/2023 |
| Calcium | | 0.100 | | **2.30** | 2.500 | 0 | 91.9 | 85 | 115 | 06/07/2023 |
| Chromium | | 0.0050 | | **0.181** | 0.2000 | 0 | 90.7 | 85 | 115 | 06/07/2023 |
| Cobalt | | 0.0050 | | **0.446** | 0.5000 | 0 | 89.2 | 85 | 115 | 06/07/2023 |
| Copper | | 0.0050 | | **0.224** | 0.2500 | 0 | 89.5 | 85 | 115 | 06/07/2023 |
| Iron | | 0.0400 | | **1.80** | 2.000 | 0 | 90.1 | 85 | 115 | 06/07/2023 |
| Lead | | 0.0150 | | **0.442** | 0.5000 | 0 | 88.5 | 85 | 115 | 06/07/2023 |
| Magnesium | | 0.0500 | | **2.13** | 2.500 | 0 | 85.2 | 85 | 115 | 06/07/2023 |
| Manganese | | 0.0070 | | **0.446** | 0.5000 | 0 | 89.2 | 85 | 115 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **0.426** | 0.5000 | 0 | 85.2 | 85 | 115 | 06/07/2023 |
| Nickel | | 0.0050 | | **0.460** | 0.5000 | 0 | 92.0 | 85 | 115 | 06/08/2023 |
| Potassium | | 0.100 | | **2.39** | 2.500 | 0 | 95.7 | 85 | 115 | 06/07/2023 |
| Selenium | | 0.0400 | | **0.430** | 0.5000 | 0 | 86.0 | 85 | 115 | 06/07/2023 |
| Silicon | * | 0.0500 | | **0.511** | 0.5000 | 0 | 102.1 | 85 | 115 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0456** | 0.0500 | 0 | 91.2 | 85 | 115 | 06/07/2023 |
| Sodium | | 0.0500 | | **2.25** | 2.500 | 0 | 90.1 | 85 | 115 | 06/07/2023 |
| Thallium | | 0.0500 | | **0.218** | 0.2500 | 0 | 87.0 | 85 | 115 | 06/07/2023 |
| Vanadium | | 0.0100 | | **0.440** | 0.5000 | 0 | 88.0 | 85 | 115 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.446** | 0.5000 | 0 | 89.2 | 85 | 115 | 06/07/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206871 **SampType:** MS Units **mg/L**

SampID: 23051600-003DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.72** | 2.000 | 0 | 85.9 | 75 | 125 | 06/07/2023 |
| Arsenic | | 0.0250 | | **0.470** | 0.5000 | 0 | 94.0 | 75 | 125 | 06/07/2023 |
| Barium | | 0.0025 | | **1.85** | 2.000 | 0.04570 | 90.0 | 75 | 125 | 06/07/2023 |
| Boron | | 0.0200 | | **1.02** | 0.5000 | 0.5821 | 86.9 | 75 | 125 | 06/07/2023 |
| Cadmium | | 0.0020 | | **0.0451** | 0.0500 | 0 | 90.2 | 75 | 125 | 06/07/2023 |
| Calcium | | 0.100 | S | **76.3** | 2.500 | 75.16 | 46.8 | 75 | 125 | 06/07/2023 |
| Chromium | | 0.0050 | | **0.180** | 0.2000 | 0 | 90.2 | 75 | 125 | 06/07/2023 |
| Copper | | 0.0050 | | **0.227** | 0.2500 | 0 | 91.0 | 75 | 125 | 06/07/2023 |
| Iron | | 0.0400 | | **1.80** | 2.000 | 0 | 89.9 | 75 | 125 | 06/07/2023 |
| Lead | | 0.0150 | | **0.438** | 0.5000 | 0 | 87.6 | 75 | 125 | 06/07/2023 |
| Magnesium | | 0.0500 | S | **29.5** | 2.500 | 27.75 | 70.2 | 75 | 125 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **0.452** | 0.5000 | 0.02060 | 86.3 | 75 | 125 | 06/07/2023 |
| Potassium | | 1.00 | | **10.9** | 2.500 | 8.544 | 93.0 | 75 | 125 | 06/08/2023 |
| Sodium | | 0.0500 | S | **43.2** | 2.500 | 41.68 | 60.4 | 75 | 125 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.453** | 0.5000 | 0 | 90.6 | 75 | 125 | 06/07/2023 |

**Batch** 206871 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23051600-003DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.74** | 2.000 | 0 | 86.9 | 1.717 | 1.18 | 06/07/2023 |
| Arsenic | | 0.0250 | | **0.467** | 0.5000 | 0 | 93.4 | 0.4702 | 0.70 | 06/07/2023 |
| Barium | | 0.0025 | | **1.85** | 2.000 | 0.04570 | 90.4 | 1.847 | 0.42 | 06/07/2023 |
| Boron | | 0.0200 | | **1.02** | 0.5000 | 0.5821 | 87.1 | 1.017 | 0.09 | 06/07/2023 |
| Cadmium | | 0.0020 | | **0.0452** | 0.0500 | 0 | 90.4 | 0.04510 | 0.22 | 06/07/2023 |
| Calcium | | 0.100 | S | **76.6** | 2.500 | 75.16 | 59.2 | 76.33 | 0.41 | 06/07/2023 |
| Chromium | | 0.0050 | | **0.182** | 0.2000 | 0 | 91.2 | 0.1804 | 1.10 | 06/07/2023 |
| Copper | | 0.0050 | | **0.230** | 0.2500 | 0 | 91.8 | 0.2274 | 0.92 | 06/07/2023 |
| Iron | | 0.0400 | | **1.82** | 2.000 | 0 | 90.8 | 1.797 | 0.99 | 06/07/2023 |
| Lead | | 0.0150 | | **0.442** | 0.5000 | 0 | 88.4 | 0.4378 | 1.00 | 06/07/2023 |
| Magnesium | | 0.0500 | S | **29.4** | 2.500 | 27.75 | 67.5 | 29.50 | 0.23 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **0.454** | 0.5000 | 0.02060 | 86.7 | 0.4520 | 0.49 | 06/07/2023 |
| Potassium | | 1.00 | | **10.9** | 2.500 | 8.544 | 92.9 | 10.87 | 0.04 | 06/08/2023 |
| Sodium | | 0.0500 | S | **43.1** | 2.500 | 41.68 | 56.4 | 43.19 | 0.23 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.456** | 0.5000 | 0 | 91.2 | 0.4529 | 0.64 | 06/07/2023 |

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# Quality Control Results

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**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206871 **SampType:** MS Units **mg/L**

SampID: 23051600-008EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.73** | 2.000 | 0 | 86.3 | 75 | 125 | 06/07/2023 |
| Arsenic | | 0.0250 | | **0.466** | 0.5000 | 0 | 93.1 | 75 | 125 | 06/07/2023 |
| Barium | | 0.0025 | | **1.88** | 2.000 | 0.07000 | 90.4 | 75 | 125 | 06/07/2023 |
| Beryllium | | 0.0005 | | **0.0446** | 0.0500 | 0 | 89.2 | 75 | 125 | 06/07/2023 |
| Boron | | 0.0200 | | **0.673** | 0.5000 | 0.2354 | 87.5 | 75 | 125 | 06/07/2023 |
| Cadmium | | 0.0020 | | **0.0451** | 0.0500 | 0 | 90.2 | 75 | 125 | 06/07/2023 |
| Calcium | | 0.100 | S | **75.9** | 2.500 | 75.15 | 31.2 | 75 | 125 | 06/07/2023 |
| Chromium | | 0.0050 | | **0.182** | 0.2000 | 0 | 91.1 | 75 | 125 | 06/07/2023 |
| Copper | | 0.0050 | | **0.230** | 0.2500 | 0.004900 | 90.0 | 75 | 125 | 06/07/2023 |
| Iron | | 0.0400 | | **1.83** | 2.000 | 0 | 91.5 | 75 | 125 | 06/07/2023 |
| Lead | | 0.0150 | | **0.442** | 0.5000 | 0 | 88.4 | 75 | 125 | 06/07/2023 |
| Magnesium | | 0.0500 | S | **25.3** | 2.500 | 23.57 | 69.3 | 75 | 125 | 06/07/2023 |
| Manganese | | 0.0070 | | **0.456** | 0.5000 | 0 | 91.2 | 75 | 125 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **0.449** | 0.5000 | 0.01250 | 87.4 | 75 | 125 | 06/07/2023 |
| Nickel | | 0.0050 | | **0.452** | 0.5000 | 0 | 90.3 | 75 | 125 | 06/08/2023 |
| Potassium | | 0.100 | | **6.61** | 2.500 | 4.328 | 91.2 | 75 | 125 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0471** | 0.0500 | 0.001100 | 92.0 | 75 | 125 | 06/07/2023 |
| Sodium | | 0.0500 | S | **49.8** | 2.500 | 48.46 | 52.4 | 75 | 125 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.457** | 0.5000 | 0 | 91.4 | 75 | 125 | 06/07/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206871 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-008EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.71** | 2.000 | 0 | 85.6 | 1.726 | 0.80 | 06/07/2023 |
| Arsenic | | 0.0250 | | **0.462** | 0.5000 | 0 | 92.4 | 0.4655 | 0.71 | 06/07/2023 |
| Barium | | 0.0025 | | **1.86** | 2.000 | 0.07000 | 89.4 | 1.878 | 1.07 | 06/07/2023 |
| Beryllium | | 0.0005 | | **0.0447** | 0.0500 | 0 | 89.4 | 0.04460 | 0.22 | 06/07/2023 |
| Boron | | 0.0200 | | **0.668** | 0.5000 | 0.2354 | 86.5 | 0.6728 | 0.76 | 06/07/2023 |
| Cadmium | | 0.0020 | | **0.0443** | 0.0500 | 0 | 88.6 | 0.04510 | 1.79 | 06/07/2023 |
| Calcium | | 0.100 | S | **75.2** | 2.500 | 75.15 | 3.2 | 75.93 | 0.93 | 06/07/2023 |
| Chromium | | 0.0050 | | **0.181** | 0.2000 | 0 | 90.7 | 0.1822 | 0.50 | 06/07/2023 |
| Copper | | 0.0050 | | **0.238** | 0.2500 | 0.004900 | 93.1 | 0.2299 | 3.34 | 06/07/2023 |
| Iron | | 0.0400 | | **1.80** | 2.000 | 0 | 90.0 | 1.829 | 1.59 | 06/07/2023 |
| Lead | | 0.0150 | | **0.436** | 0.5000 | 0 | 87.2 | 0.4419 | 1.32 | 06/07/2023 |
| Magnesium | | 0.0500 | S | **25.3** | 2.500 | 23.57 | 67.1 | 25.30 | 0.21 | 06/07/2023 |
| Manganese | | 0.0070 | | **0.448** | 0.5000 | 0 | 89.7 | 0.4562 | 1.70 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **0.444** | 0.5000 | 0.01250 | 86.2 | 0.4494 | 1.32 | 06/07/2023 |
| Nickel | | 0.0050 | | **0.457** | 0.5000 | 0 | 91.4 | 0.4516 | 1.21 | 06/08/2023 |
| Potassium | | 0.100 | | **6.53** | 2.500 | 4.328 | 88.0 | 6.608 | 1.21 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0471** | 0.0500 | 0.001100 | 92.0 | 0.04710 | 0.00 | 06/07/2023 |
| Sodium | | 0.0500 | S | **49.4** | 2.500 | 48.46 | 35.6 | 49.77 | 0.85 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.456** | 0.5000 | 0 | 91.2 | 0.4568 | 0.22 | 06/07/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206873 **SampType:** MBLK Units **mg/L**

SampID: MBLK-206873

| 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 | 06/06/2023 |
| Antimony | | 0.0500 | | **< 0.0500** | 0.0068 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Beryllium | | 0.0005 | J | **0.0002** | 0.0002 | 0 | 100.0 | -100 | 100 | 06/06/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Cobalt | | 0.0050 | | **< 0.0050** | 0.0020 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0014 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Nickel | | 0.0050 | | **< 0.0050** | 0.0016 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Selenium | | 0.0400 | | **< 0.0400** | 0.0170 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Silicon | * | 0.0500 | | **< 0.0500** | 0.0122 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Silver | | 0.0070 | | **< 0.0070** | 0.0027 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Thallium | | 0.0500 | | **< 0.0500** | 0.0111 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Vanadium | | 0.0100 | | **< 0.0100** | 0.0009 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/06/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206873 **SampType:** LCS Units **mg/L**

SampID: LCS-206873

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.79** | 2.000 | 0 | 89.3 | 85 | 115 | 06/06/2023 |
| Antimony | | 0.0500 | | **0.439** | 0.5000 | 0 | 87.8 | 85 | 115 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.466** | 0.5000 | 0 | 93.2 | 85 | 115 | 06/06/2023 |
| Barium | | 0.0025 | | **1.81** | 2.000 | 0 | 90.3 | 85 | 115 | 06/06/2023 |
| Beryllium | | 0.0005 | | **0.0460** | 0.0500 | 0 | 92.0 | 85 | 115 | 06/06/2023 |
| Boron | | 0.0200 | | **0.454** | 0.5000 | 0 | 90.7 | 85 | 115 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0445** | 0.0500 | 0 | 89.0 | 85 | 115 | 06/06/2023 |
| Calcium | | 0.100 | | **2.35** | 2.500 | 0 | 94.2 | 85 | 115 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.189** | 0.2000 | 0 | 94.7 | 85 | 115 | 06/06/2023 |
| Cobalt | | 0.0050 | | **0.478** | 0.5000 | 0 | 95.5 | 85 | 115 | 06/06/2023 |
| Copper | | 0.0050 | | **0.232** | 0.2500 | 0 | 93.0 | 85 | 115 | 06/06/2023 |
| Iron | | 0.0400 | | **1.87** | 2.000 | 0 | 93.3 | 85 | 115 | 06/06/2023 |
| Lead | | 0.0150 | | **0.461** | 0.5000 | 0 | 92.3 | 85 | 115 | 06/06/2023 |
| Magnesium | | 0.0500 | | **2.23** | 2.500 | 0 | 89.2 | 85 | 115 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.485** | 0.5000 | 0 | 97.0 | 85 | 115 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.449** | 0.5000 | 0 | 89.8 | 85 | 115 | 06/06/2023 |
| Nickel | | 0.0050 | | **0.464** | 0.5000 | 0 | 92.9 | 85 | 115 | 06/06/2023 |
| Potassium | | 0.100 | | **2.32** | 2.500 | 0 | 92.9 | 85 | 115 | 06/06/2023 |
| Selenium | | 0.0400 | | **0.449** | 0.5000 | 0 | 89.7 | 85 | 115 | 06/06/2023 |
| Silicon | * | 0.0500 | | **0.506** | 0.5000 | 0 | 101.2 | 85 | 115 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0440** | 0.0500 | 0 | 88.0 | 85 | 115 | 06/06/2023 |
| Sodium | | 0.0500 | | **2.25** | 2.500 | 0 | 89.8 | 85 | 115 | 06/07/2023 |
| Thallium | | 0.0500 | | **0.233** | 0.2500 | 0 | 93.1 | 85 | 115 | 06/06/2023 |
| Vanadium | | 0.0100 | | **0.450** | 0.5000 | 0 | 89.9 | 85 | 115 | 06/06/2023 |
| Zinc | | 0.0100 | | **0.452** | 0.5000 | 0 | 90.3 | 85 | 115 | 06/06/2023 |

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# Quality Control Results

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**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206873 **SampType:** MS Units **mg/L**
SampID: 23051600-044EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **3.15** | 4.000 | 0 | 78.8 | 75 | 125 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.852** | 1.000 | 0 | 85.2 | 75 | 125 | 06/06/2023 |
| Barium | | 0.0025 | | **3.27** | 4.000 | 0 | 81.8 | 75 | 125 | 06/06/2023 |
| Beryllium | | 0.0005 | | **0.0838** | 0.1000 | 0.0008000 | 83.0 | 75 | 125 | 06/06/2023 |
| Boron | | 0.0200 | | **0.817** | 1.000 | 0 | 81.7 | 75 | 125 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0805** | 0.1000 | 0 | 80.5 | 75 | 125 | 06/06/2023 |
| Calcium | | 0.100 | | **4.26** | 5.000 | 0 | 85.2 | 75 | 125 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.344** | 0.4000 | 0 | 86.1 | 75 | 125 | 06/06/2023 |
| Copper | | 0.0050 | | **0.428** | 0.5000 | 0 | 85.5 | 75 | 125 | 06/06/2023 |
| Iron | | 0.0400 | | **3.55** | 4.000 | 0 | 88.8 | 75 | 125 | 06/06/2023 |
| Lead | | 0.0150 | | **0.830** | 1.000 | 0 | 83.0 | 75 | 125 | 06/06/2023 |
| Magnesium | | 0.0500 | | **4.03** | 5.000 | 0 | 80.7 | 75 | 125 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.888** | 1.000 | 0 | 88.8 | 75 | 125 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.812** | 1.000 | 0 | 81.2 | 75 | 125 | 06/06/2023 |
| Nickel | | 0.0050 | | **0.837** | 1.000 | 0 | 83.7 | 75 | 125 | 06/06/2023 |
| Potassium | | 0.100 | | **4.10** | 5.000 | 0 | 82.0 | 75 | 125 | 06/06/2023 |
| Silicon | * | 0.0500 | | **0.948** | 1.000 | 0 | 94.8 | 75 | 125 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0811** | 0.1000 | 0 | 81.1 | 75 | 125 | 06/06/2023 |
| Sodium | | 0.0500 | | **4.30** | 5.000 | 0.03250 | 85.3 | 75 | 125 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.810** | 1.000 | 0 | 81.0 | 75 | 125 | 06/06/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206873 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-044EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **3.17** | 4.000 | 0 | 79.2 | 3.150 | 0.63 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.844** | 1.000 | 0 | 84.4 | 0.8525 | 1.03 | 06/06/2023 |
| Barium | | 0.0025 | | **3.27** | 4.000 | 0 | 81.8 | 3.270 | 0.00 | 06/06/2023 |
| Beryllium | | 0.0005 | | **0.0839** | 0.1000 | 0.0008000 | 83.1 | 0.08380 | 0.12 | 06/06/2023 |
| Boron | | 0.0200 | | **0.819** | 1.000 | 0 | 81.9 | 0.8172 | 0.17 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0806** | 0.1000 | 0 | 80.6 | 0.08050 | 0.12 | 06/06/2023 |
| Calcium | | 0.100 | | **4.26** | 5.000 | 0 | 85.2 | 4.261 | 0.01 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.345** | 0.4000 | 0 | 86.2 | 0.3444 | 0.17 | 06/06/2023 |
| Copper | | 0.0050 | | **0.427** | 0.5000 | 0 | 85.4 | 0.4275 | 0.16 | 06/06/2023 |
| Iron | | 0.0400 | | **3.55** | 4.000 | 0 | 88.8 | 3.550 | 0.00 | 06/06/2023 |
| Lead | | 0.0150 | | **0.833** | 1.000 | 0 | 83.3 | 0.8298 | 0.36 | 06/06/2023 |
| Magnesium | | 0.0500 | | **4.05** | 5.000 | 0 | 81.1 | 4.035 | 0.45 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.875** | 1.000 | 0 | 87.5 | 0.8881 | 1.53 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.814** | 1.000 | 0 | 81.4 | 0.8125 | 0.18 | 06/06/2023 |
| Nickel | | 0.0050 | | **0.839** | 1.000 | 0 | 83.9 | 0.8367 | 0.30 | 06/06/2023 |
| Potassium | | 0.100 | | **4.09** | 5.000 | 0 | 81.9 | 4.099 | 0.14 | 06/06/2023 |
| Silicon | * | 0.0500 | | **0.945** | 1.000 | 0 | 94.5 | 0.9484 | 0.39 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0812** | 0.1000 | 0 | 81.2 | 0.08110 | 0.12 | 06/06/2023 |
| Sodium | | 0.0500 | | **4.29** | 5.000 | 0.03250 | 85.2 | 4.299 | 0.20 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.811** | 1.000 | 0 | 81.1 | 0.8098 | 0.15 | 06/06/2023 |

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Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206891 **SampType:** MBLK Units **mg/L**

SampID: MBLK-206891

| 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 | 06/06/2023 |
| Antimony | | 0.0500 | | **< 0.0500** | 0.0068 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Cobalt | | 0.0050 | | **< 0.0050** | 0.0020 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0014 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Nickel | | 0.0050 | | **< 0.0050** | 0.0016 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Selenium | | 0.0400 | | **< 0.0400** | 0.0170 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Silicon | * | 0.0500 | | **< 0.0500** | 0.0500 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Silver | | 0.0070 | | **< 0.0070** | 0.0027 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Thallium | | 0.0500 | | **< 0.0500** | 0.0111 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Vanadium | | 0.0100 | | **< 0.0100** | 0.0009 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/06/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206891 **SampType:** LCS Units **mg/L**

SampID: LCS-206891

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.79** | 2.000 | 0 | 89.4 | 85 | 115 | 06/06/2023 |
| Antimony | | 0.0500 | | **0.439** | 0.5000 | 0 | 87.8 | 85 | 115 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.468** | 0.5000 | 0 | 93.7 | 85 | 115 | 06/06/2023 |
| Barium | | 0.0025 | | **1.81** | 2.000 | 0 | 90.4 | 85 | 115 | 06/06/2023 |
| Beryllium | | 0.0005 | | **0.0455** | 0.0500 | 0 | 91.0 | 85 | 115 | 06/06/2023 |
| Boron | | 0.0200 | | **0.455** | 0.5000 | 0 | 90.9 | 85 | 115 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0445** | 0.0500 | 0 | 89.0 | 85 | 115 | 06/06/2023 |
| Calcium | | 0.100 | | **2.35** | 2.500 | 0 | 94.0 | 85 | 115 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.185** | 0.2000 | 0 | 92.6 | 85 | 115 | 06/06/2023 |
| Cobalt | | 0.0050 | | **0.475** | 0.5000 | 0 | 95.0 | 85 | 115 | 06/06/2023 |
| Copper | | 0.0050 | | **0.234** | 0.2500 | 0 | 93.4 | 85 | 115 | 06/06/2023 |
| Iron | | 0.0400 | | **1.84** | 2.000 | 0 | 91.8 | 85 | 115 | 06/06/2023 |
| Lead | | 0.0150 | | **0.458** | 0.5000 | 0 | 91.6 | 85 | 115 | 06/06/2023 |
| Magnesium | | 0.0500 | | **2.22** | 2.500 | 0 | 89.0 | 85 | 115 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.475** | 0.5000 | 0 | 95.1 | 85 | 115 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.447** | 0.5000 | 0 | 89.4 | 85 | 115 | 06/06/2023 |
| Nickel | | 0.0050 | | **0.456** | 0.5000 | 0 | 91.2 | 85 | 115 | 06/06/2023 |
| Potassium | | 0.100 | | **2.32** | 2.500 | 0 | 92.8 | 85 | 115 | 06/06/2023 |
| Selenium | | 0.0400 | | **0.441** | 0.5000 | 0 | 88.3 | 85 | 115 | 06/06/2023 |
| Silicon | * | 0.0500 | | **0.522** | 0.5000 | 0 | 104.5 | 85 | 115 | 06/07/2023 |
| Silver | | 0.0070 | | **0.0436** | 0.0500 | 0 | 87.2 | 85 | 115 | 06/06/2023 |
| Sodium | | 0.0500 | | **2.23** | 2.500 | 0 | 89.4 | 85 | 115 | 06/06/2023 |
| Thallium | | 0.0500 | | **0.232** | 0.2500 | 0 | 93.0 | 85 | 115 | 06/06/2023 |
| Vanadium | | 0.0100 | | **0.449** | 0.5000 | 0 | 89.7 | 85 | 115 | 06/06/2023 |
| Zinc | | 0.0100 | | **0.451** | 0.5000 | 0 | 90.3 | 85 | 115 | 06/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** 206891 **SampType:** MS Units **mg/L**

SampID: 23051600-012DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.83** | 2.000 | 0 | 91.6 | 75 | 125 | 06/06/2023 |
| Calcium | | 0.100 | S | **86.4** | 2.500 | 85.59 | 34.0 | 75 | 125 | 06/06/2023 |
| Iron | | 0.0400 | | **1.85** | 2.000 | 0 | 92.7 | 75 | 125 | 06/06/2023 |
| Magnesium | | 0.0500 | S | **28.8** | 2.500 | 26.91 | 74.8 | 75 | 125 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.480** | 0.5000 | 0 | 96.0 | 75 | 125 | 06/06/2023 |
| Potassium | | 0.100 | | **5.46** | 2.500 | 3.178 | 91.2 | 75 | 125 | 06/06/2023 |
| Silicon | * | 0.0500 | | **5.06** | 0.5000 | 4.550 | 101.7 | 75 | 125 | 06/07/2023 |
| Sodium | | 0.0500 | S | **38.9** | 2.500 | 37.10 | 71.2 | 75 | 125 | 06/06/2023 |

**Batch** 206891 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23051600-012DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.80** | 2.000 | 0 | 90.1 | 1.832 | 1.65 | 06/06/2023 |
| Calcium | | 0.100 | S | **85.6** | 2.500 | 85.59 | -0.8 | 86.44 | 1.01 | 06/06/2023 |
| Iron | | 0.0400 | | **1.83** | 2.000 | 0 | 91.7 | 1.854 | 1.02 | 06/06/2023 |
| Magnesium | | 0.0500 | S | **28.6** | 2.500 | 26.91 | 68.5 | 28.78 | 0.55 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.476** | 0.5000 | 0 | 95.2 | 0.4798 | 0.82 | 06/06/2023 |
| Potassium | | 0.100 | | **5.34** | 2.500 | 3.178 | 86.6 | 5.459 | 2.14 | 06/06/2023 |
| Silicon | * | 0.0500 | | **5.07** | 0.5000 | 4.550 | 104.7 | 5.059 | 0.30 | 06/07/2023 |
| Sodium | | 0.0500 | S | **38.3** | 2.500 | 37.10 | 47.2 | 38.88 | 1.56 | 06/06/2023 |

**Batch** 206891 **SampType:** MS Units **mg/L**

SampID: 23051600-041DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **4.28** | 2.000 | 2.550 | 86.5 | 75 | 125 | 06/06/2023 |
| Calcium | | 0.100 | S | **92.2** | 2.500 | 91.26 | 36.8 | 75 | 125 | 06/06/2023 |
| Iron | | 0.0400 | | **1.87** | 2.000 | 0 | 93.3 | 75 | 125 | 06/06/2023 |
| Magnesium | | 0.0500 | | **2.19** | 2.500 | 0 | 87.7 | 75 | 125 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.484** | 0.5000 | 0 | 96.7 | 75 | 125 | 06/06/2023 |
| Potassium | | 0.500 | S | **26.8** | 2.500 | 24.93 | 74.9 | 75 | 125 | 06/08/2023 |
| Silicon | * | 0.0500 | S | **11.2** | 0.5000 | 10.80 | 74.7 | 75 | 125 | 06/07/2023 |
| Sodium | | 0.0500 | S | **105** | 2.500 | 104.0 | 28.8 | 75 | 125 | 06/06/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

**Batch** **206891** **SampType:** **MSD** Units **mg/L** RPD Limit: **20**
SampID: 23051600-041DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **4.25** | 2.000 | 2.550 | 85.0 | 4.280 | 0.70 | 06/06/2023 |
| Calcium | | 0.100 | S | **91.8** | 2.500 | 91.26 | 23.2 | 92.18 | 0.37 | 06/06/2023 |
| Iron | | 0.0400 | | **1.87** | 2.000 | 0 | 93.3 | 1.866 | 0.07 | 06/06/2023 |
| Magnesium | | 0.0500 | | **2.19** | 2.500 | 0 | 87.7 | 2.192 | 0.02 | 06/06/2023 |
| Manganese | | 0.0070 | | **0.483** | 0.5000 | 0 | 96.6 | 0.4835 | 0.06 | 06/06/2023 |
| Potassium | | 0.500 | | **26.8** | 2.500 | 24.93 | 76.3 | 26.80 | 0.13 | 06/08/2023 |
| Silicon | * | 0.0500 | | **11.3** | 0.5000 | 10.80 | 98.2 | 11.18 | 1.05 | 06/07/2023 |
| Sodium | | 0.0500 | S | **103** | 2.500 | 104.0 | -25.2 | 104.7 | 1.30 | 06/06/2023 |

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Environmental Laboratory

# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206856 **SampType:** MBLK Units **mg/L**

SampID: MBLK-206856

| 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 | 06/05/2023 |
| Antimony | | 0.0500 | | **< 0.0500** | 0.0068 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Cobalt | | 0.0050 | | **< 0.0050** | 0.0020 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0014 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Lithium | | 0.0050 | | **< 0.0050** | 0.0019 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Selenium | | 0.0400 | | **< 0.0400** | 0.0170 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Silicon | * | 0.0500 | S | **0.0599** | 0.0122 | 0 | 491.0 | -100 | 100 | 06/07/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Thallium | | 0.0500 | | **< 0.0500** | 0.0111 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Vanadium | | 0.0100 | | **< 0.0100** | 0.0009 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/05/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206856 **SampType:** LCS Units **mg/L**

SampID: LCS-206856

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.92** | 2.000 | 0 | 96.0 | 85 | 115 | 06/05/2023 |
| Antimony | | 0.0500 | | **0.490** | 0.5000 | 0 | 97.9 | 85 | 115 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.516** | 0.5000 | 0 | 103.3 | 85 | 115 | 06/05/2023 |
| Barium | | 0.0025 | | **2.02** | 2.000 | 0 | 101.0 | 85 | 115 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0503** | 0.0500 | 0 | 100.6 | 85 | 115 | 06/05/2023 |
| Boron | | 0.0200 | | **0.491** | 0.5000 | 0 | 98.2 | 85 | 115 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0528** | 0.0500 | 0 | 105.6 | 85 | 115 | 06/05/2023 |
| Calcium | | 0.100 | | **2.59** | 2.500 | 0 | 103.7 | 85 | 115 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.194** | 0.2000 | 0 | 97.2 | 85 | 115 | 06/05/2023 |
| Cobalt | | 0.0050 | | **0.490** | 0.5000 | 0 | 97.9 | 85 | 115 | 06/05/2023 |
| Copper | | 0.0050 | | **0.247** | 0.2500 | 0 | 99.0 | 85 | 115 | 06/05/2023 |
| Iron | | 0.0400 | | **2.00** | 2.000 | 0 | 100.0 | 85 | 115 | 06/05/2023 |
| Lead | | 0.0150 | | **0.493** | 0.5000 | 0 | 98.7 | 85 | 115 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.548** | 0.5000 | 0 | 109.6 | 85 | 115 | 06/15/2023 |
| Lithium | | 0.0050 | S | **0.623** | 0.5000 | 0 | 124.6 | 85 | 115 | 06/15/2023 |
| Magnesium | | 0.0500 | | **2.36** | 2.500 | 0 | 94.2 | 85 | 115 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.488** | 0.5000 | 0 | 97.6 | 85 | 115 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.476** | 0.5000 | 0 | 95.2 | 85 | 115 | 06/05/2023 |
| Potassium | | 0.100 | | **2.62** | 2.500 | 0 | 104.7 | 85 | 115 | 06/05/2023 |
| Selenium | | 0.0400 | | **0.496** | 0.5000 | 0 | 99.1 | 85 | 115 | 06/05/2023 |
| Silicon | * | 0.0500 | BS | **0.602** | 0.5000 | 0 | 120.5 | 85 | 115 | 06/07/2023 |
| Sodium | | 0.0500 | | **2.50** | 2.500 | 0 | 100.2 | 85 | 115 | 06/05/2023 |
| Thallium | | 0.0500 | | **0.242** | 0.2500 | 0 | 96.7 | 85 | 115 | 06/05/2023 |
| Vanadium | | 0.0100 | | **0.490** | 0.5000 | 0 | 98.0 | 85 | 115 | 06/05/2023 |
| Zinc | | 0.0100 | | **0.499** | 0.5000 | 0 | 99.7 | 85 | 115 | 06/05/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** **206856** **SampType:** **MS** Units **mg/L**

SampID: 23051600-007DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.07** | 2.000 | 0.05820 | 100.6 | 75 | 125 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.524** | 0.5000 | 0 | 104.9 | 75 | 125 | 06/05/2023 |
| Barium | | 0.0025 | | **2.11** | 2.000 | 0.1075 | 100.1 | 75 | 125 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0505** | 0.0500 | 0.0003000 | 100.4 | 75 | 125 | 06/05/2023 |
| Boron | | 0.0200 | | **0.591** | 0.5000 | 0.08420 | 101.4 | 75 | 125 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0515** | 0.0500 | 0 | 103.0 | 75 | 125 | 06/05/2023 |
| Calcium | | 0.100 | S | **201** | 2.500 | 200.2 | 42.8 | 75 | 125 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.195** | 0.2000 | 0 | 97.3 | 75 | 125 | 06/05/2023 |
| Copper | | 0.0050 | | **0.263** | 0.2500 | 0.007200 | 102.3 | 75 | 125 | 06/05/2023 |
| Iron | | 0.0400 | | **2.20** | 2.000 | 0.1000 | 105.0 | 75 | 125 | 06/05/2023 |
| Lead | | 0.0150 | | **0.484** | 0.5000 | 0 | 96.7 | 75 | 125 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.568** | 0.5000 | 0.01140 | 111.3 | 75 | 125 | 06/15/2023 |
| Magnesium | | 0.0500 | | **64.1** | 2.500 | 61.99 | 86.0 | 75 | 125 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.508** | 0.5000 | 0.01790 | 97.9 | 75 | 125 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.484** | 0.5000 | 0 | 96.9 | 75 | 125 | 06/05/2023 |
| Potassium | | 0.100 | | **6.61** | 2.500 | 3.973 | 105.3 | 75 | 125 | 06/05/2023 |
| Silicon | * | 0.0500 | B | **9.42** | 0.5000 | 8.822 | 118.8 | 75 | 125 | 06/07/2023 |
| Sodium | | 0.0500 | | **181** | 2.500 | 178.4 | 96.8 | 75 | 125 | 06/05/2023 |
| Zinc | | 0.0100 | | **0.514** | 0.5000 | 0.01010 | 100.8 | 75 | 125 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** **206856** **SampType:** **MSD** Units **mg/L** RPD Limit: **20**
SampID: 23051600-007DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.08** | 2.000 | 0.05820 | 101.1 | 2.070 | 0.48 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.525** | 0.5000 | 0 | 105.0 | 0.5243 | 0.15 | 06/05/2023 |
| Barium | | 0.0025 | | **2.13** | 2.000 | 0.1075 | 101.1 | 2.110 | 0.94 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0507** | 0.0500 | 0.0003000 | 100.8 | 0.05050 | 0.40 | 06/05/2023 |
| Boron | | 0.0200 | | **0.592** | 0.5000 | 0.08420 | 101.5 | 0.5912 | 0.08 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0519** | 0.0500 | 0 | 103.8 | 0.05150 | 0.77 | 06/05/2023 |
| Calcium | | 0.100 | | **203** | 2.500 | 200.2 | 96.0 | 201.3 | 0.66 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.196** | 0.2000 | 0 | 98.0 | 0.1946 | 0.72 | 06/05/2023 |
| Copper | | 0.0050 | | **0.262** | 0.2500 | 0.007200 | 102.0 | 0.2629 | 0.30 | 06/05/2023 |
| Iron | | 0.0400 | | **2.17** | 2.000 | 0.1000 | 103.5 | 2.200 | 1.37 | 06/05/2023 |
| Lead | | 0.0150 | | **0.488** | 0.5000 | 0 | 97.7 | 0.4837 | 0.99 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.569** | 0.5000 | 0.01140 | 111.5 | 0.5681 | 0.16 | 06/15/2023 |
| Magnesium | | 0.0500 | | **64.4** | 2.500 | 61.99 | 95.8 | 64.14 | 0.38 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.513** | 0.5000 | 0.01790 | 98.9 | 0.5076 | 0.98 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.485** | 0.5000 | 0 | 96.9 | 0.4843 | 0.08 | 06/05/2023 |
| Potassium | | 0.100 | | **6.54** | 2.500 | 3.973 | 102.6 | 6.606 | 1.04 | 06/05/2023 |
| Silicon | * | 0.0500 | BS | **9.51** | 0.5000 | 8.822 | 136.9 | 9.416 | 0.96 | 06/07/2023 |
| Sodium | | 0.0500 | S | **180** | 2.500 | 178.4 | 53.2 | 180.8 | 0.60 | 06/05/2023 |
| Zinc | | 0.0100 | | **0.516** | 0.5000 | 0.01010 | 101.1 | 0.5142 | 0.29 | 06/05/2023 |

Teklab, Inc.
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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206856 **SampType:** MS Units **mg/L**
SampID: 23051600-024CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.22** | 2.000 | 0.2164 | 100.2 | 75 | 125 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.521** | 0.5000 | 0 | 104.2 | 75 | 125 | 06/05/2023 |
| Barium | | 0.0025 | | **2.06** | 2.000 | 0.04100 | 101.0 | 75 | 125 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0512** | 0.0500 | 0 | 102.4 | 75 | 125 | 06/05/2023 |
| Boron | | 0.0200 | | **0.645** | 0.5000 | 0.1428 | 100.4 | 75 | 125 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0522** | 0.0500 | 0 | 104.4 | 75 | 125 | 06/05/2023 |
| Calcium | | 0.100 | S | **103** | 2.500 | 102.2 | 47.6 | 75 | 125 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.197** | 0.2000 | 0 | 98.6 | 75 | 125 | 06/05/2023 |
| Iron | | 0.0400 | | **2.40** | 2.000 | 0.2952 | 105.2 | 75 | 125 | 06/05/2023 |
| Lead | | 0.0150 | | **0.494** | 0.5000 | 0 | 98.8 | 75 | 125 | 06/05/2023 |
| Lithium | | 0.0050 | S | **0.644** | 0.5000 | 0.002900 | 128.2 | 75 | 125 | 06/14/2023 |
| Magnesium | | 0.0500 | | **41.7** | 2.500 | 39.45 | 89.6 | 75 | 125 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.598** | 0.5000 | 0.1040 | 98.9 | 75 | 125 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.486** | 0.5000 | 0 | 97.2 | 75 | 125 | 06/05/2023 |
| Potassium | | 0.100 | | **4.76** | 2.500 | 2.222 | 101.7 | 75 | 125 | 06/05/2023 |
| Silicon | * | 0.0500 | B | **7.18** | 0.5000 | 6.601 | 115.5 | 75 | 125 | 06/07/2023 |
| Sodium | | 0.0500 | | **42.1** | 2.500 | 40.12 | 78.4 | 75 | 125 | 06/05/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206856 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23051600-024CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.23** | 2.000 | 0.2164 | 100.7 | 2.220 | 0.45 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.525** | 0.5000 | 0 | 105.0 | 0.5212 | 0.73 | 06/05/2023 |
| Barium | | 0.0025 | | **2.05** | 2.000 | 0.04100 | 100.5 | 2.060 | 0.49 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0508** | 0.0500 | 0 | 101.6 | 0.05120 | 0.78 | 06/05/2023 |
| Boron | | 0.0200 | | **0.645** | 0.5000 | 0.1428 | 100.5 | 0.6447 | 0.06 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0516** | 0.0500 | 0 | 103.2 | 0.05220 | 1.16 | 06/05/2023 |
| Calcium | | 0.100 | S | **104** | 2.500 | 102.2 | 66.8 | 103.4 | 0.46 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.196** | 0.2000 | 0 | 98.2 | 0.1972 | 0.36 | 06/05/2023 |
| Iron | | 0.0400 | | **2.41** | 2.000 | 0.2952 | 105.7 | 2.400 | 0.42 | 06/05/2023 |
| Lead | | 0.0150 | | **0.487** | 0.5000 | 0 | 97.4 | 0.4939 | 1.37 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.617** | 0.5000 | 0.002900 | 122.9 | 0.6439 | 4.20 | 06/14/2023 |
| Magnesium | | 0.0500 | | **41.8** | 2.500 | 39.45 | 93.3 | 41.69 | 0.22 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.596** | 0.5000 | 0.1040 | 98.5 | 0.5984 | 0.32 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.481** | 0.5000 | 0 | 96.3 | 0.4859 | 0.93 | 06/05/2023 |
| Potassium | | 0.100 | | **4.80** | 2.500 | 2.222 | 102.9 | 4.764 | 0.65 | 06/05/2023 |
| Silicon | * | 0.0500 | B | **7.20** | 0.5000 | 6.601 | 118.9 | 7.178 | 0.24 | 06/07/2023 |
| Sodium | | 0.0500 | | **42.3** | 2.500 | 40.12 | 88.0 | 42.08 | 0.57 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206857 **SampType:** MBLK Units **mg/L**

SampID: MBLK-206857

| 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 | 06/05/2023 |
| Aluminum | | 0.0250 | | **< 0.0250** | 0.0127 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0040 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0040 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Lithium | * | 0.0050 | | **< 0.0050** | 0.0019 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Lithium | * | 0.0050 | | **< 0.0050** | 0.0019 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Lithium | * | 0.0050 | | **< 0.0050** | 0.0019 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/02/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Silicon | * | 0.0500 | S | **0.0543** | 0.0122 | 0 | 445.1 | -100 | 100 | 06/09/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Sodium | | 0.0500 | JS | **0.023** | 0.0180 | 0 | 128.3 | -100 | 100 | 06/02/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/02/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206857 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206857

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|

Teklab, Inc.
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# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206857 **SampType:** LCS Units **mg/L**
SampID: LCS-206857

| 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 | 06/05/2023 |
| Aluminum | | 0.0250 | | **1.95** | 2.000 | 0 | 97.5 | 85 | 115 | 06/02/2023 |
| Arsenic | | 0.0250 | | **0.528** | 0.5000 | 0 | 105.5 | 85 | 115 | 06/02/2023 |
| Arsenic | | 0.0250 | | **0.566** | 0.5000 | 0 | 113.3 | 85 | 115 | 06/05/2023 |
| Barium | | 0.0025 | | **2.18** | 2.000 | 0 | 109.0 | 85 | 115 | 06/05/2023 |
| Barium | | 0.0025 | | **2.05** | 2.000 | 0 | 102.5 | 85 | 115 | 06/02/2023 |
| Beryllium | | 0.0005 | | **0.0507** | 0.0500 | 0 | 101.4 | 85 | 115 | 06/02/2023 |
| Beryllium | | 0.0005 | | **0.0543** | 0.0500 | 0 | 108.6 | 85 | 115 | 06/05/2023 |
| Boron | | 0.0200 | | **0.507** | 0.5000 | 0 | 101.3 | 85 | 115 | 06/02/2023 |
| Boron | | 0.0200 | | **0.531** | 0.5000 | 0 | 106.1 | 85 | 115 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0568** | 0.0500 | 0 | 113.6 | 85 | 115 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0511** | 0.0500 | 0 | 102.2 | 85 | 115 | 06/02/2023 |
| Calcium | | 0.100 | | **2.78** | 2.500 | 0 | 111.0 | 85 | 115 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.205** | 0.2000 | 0 | 102.4 | 85 | 115 | 06/02/2023 |
| Chromium | | 0.0050 | | **0.216** | 0.2000 | 0 | 108.2 | 85 | 115 | 06/05/2023 |
| Copper | | 0.0050 | | **0.257** | 0.2500 | 0 | 102.9 | 85 | 115 | 06/02/2023 |
| Copper | | 0.0050 | | **0.261** | 0.2500 | 0 | 104.3 | 85 | 115 | 06/05/2023 |
| Iron | | 0.0400 | | **2.18** | 2.000 | 0 | 109.0 | 85 | 115 | 06/05/2023 |
| Iron | | 0.0400 | | **2.07** | 2.000 | 0 | 103.5 | 85 | 115 | 06/02/2023 |
| Lead | | 0.0150 | | **0.508** | 0.5000 | 0 | 101.6 | 85 | 115 | 06/02/2023 |
| Lead | | 0.0150 | | **0.550** | 0.5000 | 0 | 110.1 | 85 | 115 | 06/05/2023 |
| Lithium | * | 0.0050 | | **0.533** | 0.5000 | 0 | 106.7 | 85 | 115 | 06/02/2023 |
| Lithium | * | 0.0050 | | **0.546** | 0.5000 | 0 | 109.1 | 85 | 115 | 06/05/2023 |
| Lithium | * | 0.0050 | | **0.550** | 0.5000 | 0 | 110.0 | 85 | 115 | 06/15/2023 |
| Magnesium | | 0.0500 | | **2.57** | 2.500 | 0 | 102.7 | 85 | 115 | 06/05/2023 |
| Magnesium | | 0.0500 | | **2.39** | 2.500 | 0 | 95.5 | 85 | 115 | 06/02/2023 |
| Manganese | | 0.0070 | | **0.513** | 0.5000 | 0 | 102.7 | 85 | 115 | 06/02/2023 |
| Manganese | | 0.0070 | | **0.544** | 0.5000 | 0 | 108.8 | 85 | 115 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.524** | 0.5000 | 0 | 104.9 | 85 | 115 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.495** | 0.5000 | 0 | 99.0 | 85 | 115 | 06/02/2023 |
| Potassium | | 0.100 | | **2.62** | 2.500 | 0 | 105.0 | 85 | 115 | 06/05/2023 |
| Silicon | * | 0.0500 | B | **0.521** | 0.5000 | 0 | 104.1 | 85 | 115 | 06/09/2023 |
| Sodium | | 0.0500 | | **2.55** | 2.500 | 0 | 101.9 | 85 | 115 | 06/05/2023 |
| Sodium | | 0.0500 | B | **2.46** | 2.500 | 0 | 98.5 | 85 | 115 | 06/02/2023 |
| Zinc | | 0.0100 | | **0.538** | 0.5000 | 0 | 107.6 | 85 | 115 | 06/05/2023 |
| Zinc | | 0.0100 | | **0.507** | 0.5000 | 0 | 101.4 | 85 | 115 | 06/02/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206857 **SampType:** LCS Units **mg/L**
SampID: LCS-206857

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|

**Batch** 206857 **SampType:** MS Units **mg/L**
SampID: 23051600-032CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.12** | 2.000 | 0 | 106.0 | 75 | 125 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.596** | 0.5000 | 0 | 119.2 | 75 | 125 | 06/05/2023 |
| Barium | | 0.0025 | | **2.30** | 2.000 | 0.08020 | 111.0 | 75 | 125 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0562** | 0.0500 | 0 | 112.4 | 75 | 125 | 06/05/2023 |
| Boron | | 0.0200 | | **0.949** | 0.5000 | 0.3785 | 114.2 | 75 | 125 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0567** | 0.0500 | 0 | 113.4 | 75 | 125 | 06/05/2023 |
| Calcium | | 0.100 | S | **95.9** | 2.500 | 88.19 | 308.4 | 75 | 125 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.223** | 0.2000 | 0 | 111.3 | 75 | 125 | 06/05/2023 |
| Iron | | 0.0400 | | **2.23** | 2.000 | 0 | 111.5 | 75 | 125 | 06/05/2023 |
| Lead | | 0.0150 | | **0.556** | 0.5000 | 0 | 111.3 | 75 | 125 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.584** | 0.5000 | 0.01010 | 114.7 | 75 | 125 | 06/15/2023 |
| Magnesium | | 0.0500 | S | **33.2** | 2.500 | 29.12 | 164.0 | 75 | 125 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.562** | 0.5000 | 0 | 112.4 | 75 | 125 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.577** | 0.5000 | 0.03020 | 109.4 | 75 | 125 | 06/05/2023 |
| Potassium | | 0.100 | | **7.79** | 2.500 | 4.870 | 116.8 | 75 | 125 | 06/05/2023 |
| Silicon | * | 0.0500 | BS | **7.09** | 0.5000 | 6.449 | 128.7 | 75 | 125 | 06/09/2023 |
| Sodium | | 0.0500 | S | **58.9** | 2.500 | 53.10 | 232.0 | 75 | 125 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** **206857** **SampType:** **MSD** Units **mg/L** RPD Limit: **20**

SampID: 23051600-032CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.02** | 2.000 | 0 | 101.0 | 2.120 | 4.83 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.562** | 0.5000 | 0 | 112.4 | 0.5958 | 5.82 | 06/05/2023 |
| Barium | | 0.0025 | | **2.19** | 2.000 | 0.08020 | 105.5 | 2.300 | 4.90 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0535** | 0.0500 | 0 | 107.0 | 0.05620 | 4.92 | 06/05/2023 |
| Boron | | 0.0200 | | **0.903** | 0.5000 | 0.3785 | 105.0 | 0.9494 | 4.98 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0546** | 0.0500 | 0 | 109.2 | 0.05670 | 3.77 | 06/05/2023 |
| Calcium | | 0.100 | | **90.8** | 2.500 | 88.19 | 102.8 | 95.90 | 5.51 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.213** | 0.2000 | 0 | 106.4 | 0.2226 | 4.45 | 06/05/2023 |
| Iron | | 0.0400 | | **2.12** | 2.000 | 0 | 106.0 | 2.230 | 5.06 | 06/05/2023 |
| Lead | | 0.0150 | | **0.534** | 0.5000 | 0 | 106.8 | 0.5565 | 4.15 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.582** | 0.5000 | 0.01010 | 114.3 | 0.5838 | 0.39 | 06/15/2023 |
| Magnesium | | 0.0500 | | **31.6** | 2.500 | 29.12 | 99.2 | 33.22 | 5.00 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.534** | 0.5000 | 0 | 106.9 | 0.5621 | 5.03 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.547** | 0.5000 | 0.03020 | 103.3 | 0.5771 | 5.41 | 06/05/2023 |
| Potassium | | 0.100 | | **7.43** | 2.500 | 4.870 | 102.3 | 7.790 | 4.77 | 06/05/2023 |
| Silicon | * | 0.0500 | B | **7.02** | 0.5000 | 6.449 | 114.4 | 7.092 | 1.01 | 06/09/2023 |
| Sodium | | 0.0500 | | **55.9** | 2.500 | 53.10 | 112.4 | 58.90 | 5.21 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206857 **SampType:** MS Units **mg/L**
SampID: 23051600-037CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.06** | 2.000 | 0 | 103.0 | 75 | 125 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.576** | 0.5000 | 0 | 115.2 | 75 | 125 | 06/05/2023 |
| Barium | | 0.0025 | | **2.21** | 2.000 | 0.05370 | 107.8 | 75 | 125 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0548** | 0.0500 | 0 | 109.6 | 75 | 125 | 06/05/2023 |
| Boron | | 0.0200 | | **0.825** | 0.5000 | 0.2937 | 106.2 | 75 | 125 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0558** | 0.0500 | 0 | 111.6 | 75 | 125 | 06/05/2023 |
| Calcium | | 0.100 | S | **87.7** | 2.500 | 85.94 | 70.4 | 75 | 125 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.217** | 0.2000 | 0 | 108.7 | 75 | 125 | 06/05/2023 |
| Iron | | 0.0400 | | **2.19** | 2.000 | 0.02510 | 108.2 | 75 | 125 | 06/05/2023 |
| Lead | | 0.0150 | | **0.542** | 0.5000 | 0 | 108.5 | 75 | 125 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.579** | 0.5000 | 0.01080 | 113.7 | 75 | 125 | 06/15/2023 |
| Magnesium | | 0.0500 | | **33.8** | 2.500 | 31.65 | 86.8 | 75 | 125 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.547** | 0.5000 | 0 | 109.4 | 75 | 125 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.554** | 0.5000 | 0.02230 | 106.3 | 75 | 125 | 06/05/2023 |
| Potassium | | 0.100 | | **7.63** | 2.500 | 5.112 | 100.7 | 75 | 125 | 06/05/2023 |
| Silicon | * | 0.0500 | BS | **8.97** | 0.5000 | 8.193 | 156.0 | 75 | 125 | 06/09/2023 |
| Sodium | | 0.0500 | | **46.8** | 2.500 | 44.50 | 93.2 | 75 | 125 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206857 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-037CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.97** | 2.000 | 0 | 98.5 | 2.060 | 4.43 | 06/05/2023 |
| Arsenic | | 0.0250 | | **0.562** | 0.5000 | 0 | 112.4 | 0.5760 | 2.46 | 06/05/2023 |
| Barium | | 0.0025 | | **2.14** | 2.000 | 0.05370 | 104.3 | 2.210 | 3.22 | 06/05/2023 |
| Beryllium | | 0.0005 | | **0.0529** | 0.0500 | 0 | 105.8 | 0.05480 | 3.53 | 06/05/2023 |
| Boron | | 0.0200 | | **0.803** | 0.5000 | 0.2937 | 101.9 | 0.8249 | 2.69 | 06/05/2023 |
| Cadmium | | 0.0020 | | **0.0536** | 0.0500 | 0 | 107.2 | 0.05580 | 4.02 | 06/05/2023 |
| Calcium | | 0.100 | S | **84.8** | 2.500 | 85.94 | -46.0 | 87.70 | 3.37 | 06/05/2023 |
| Chromium | | 0.0050 | | **0.210** | 0.2000 | 0 | 105.0 | 0.2173 | 3.37 | 06/05/2023 |
| Iron | | 0.0400 | | **2.12** | 2.000 | 0.02510 | 104.7 | 2.190 | 3.25 | 06/05/2023 |
| Lead | | 0.0150 | | **0.528** | 0.5000 | 0 | 105.6 | 0.5423 | 2.67 | 06/05/2023 |
| Lithium | | 0.0050 | | **0.578** | 0.5000 | 0.01080 | 113.4 | 0.5972 | 3.30 | 06/15/2023 |
| Magnesium | | 0.0500 | S | **32.8** | 2.500 | 31.65 | 46.2 | 33.82 | 3.05 | 06/05/2023 |
| Manganese | | 0.0070 | | **0.530** | 0.5000 | 0 | 106.1 | 0.5469 | 3.04 | 06/05/2023 |
| Molybdenum | | 0.0100 | | **0.534** | 0.5000 | 0.02230 | 102.3 | 0.5540 | 3.75 | 06/05/2023 |
| Potassium | | 0.100 | | **7.46** | 2.500 | 5.112 | 94.1 | 7.630 | 2.19 | 06/05/2023 |
| Silicon | * | 0.0500 | BS | **9.03** | 0.5000 | 8.193 | 167.7 | 8.973 | 0.65 | 06/09/2023 |
| Sodium | | 0.0500 | S | **45.8** | 2.500 | 44.50 | 50.4 | 46.83 | 2.31 | 06/05/2023 |

Teklab, Inc.
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# Quality Control Results

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**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206885 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206885

| 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 | 06/06/2023 |
| Aluminum | | 0.0250 | | **< 0.0250** | 0.0127 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Copper | | 0.0050 | J | **0.0013** | 0.0013 | 0 | 100.0 | -100 | 100 | 06/06/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0040 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0040 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Lithium | * | 0.0050 | | **< 0.0050** | 0.0019 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Lithium | * | 0.0050 | | **< 0.0050** | 0.0019 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Silicon | * | 0.0500 | JS | **0.049** | 0.0122 | 0 | 404.1 | -100 | 100 | 06/07/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/06/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206885 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206885

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|

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# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206885 **SampType:** LCS Units **mg/L**
SampID: LCS-206885

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.88** | 2.000 | 0 | 94.1 | 85 | 115 | 06/07/2023 |
| Aluminum | | 0.0250 | | **1.90** | 2.000 | 0 | 95.0 | 85 | 115 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.529** | 0.5000 | 0 | 105.7 | 85 | 115 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.511** | 0.5000 | 0 | 102.2 | 85 | 115 | 06/07/2023 |
| Barium | | 0.0025 | | **1.98** | 2.000 | 0 | 99.2 | 85 | 115 | 06/06/2023 |
| Barium | | 0.0025 | | **1.97** | 2.000 | 0 | 98.4 | 85 | 115 | 06/07/2023 |
| Beryllium | | 0.0005 | | **0.0512** | 0.0500 | 0 | 102.4 | 85 | 115 | 06/06/2023 |
| Beryllium | | 0.0005 | | **0.0489** | 0.0500 | 0 | 97.8 | 85 | 115 | 06/07/2023 |
| Boron | | 0.0200 | | **0.505** | 0.5000 | 0 | 101.0 | 85 | 115 | 06/06/2023 |
| Boron | | 0.0200 | | **0.488** | 0.5000 | 0 | 97.6 | 85 | 115 | 06/07/2023 |
| Cadmium | | 0.0020 | | **0.0550** | 0.0500 | 0 | 110.0 | 85 | 115 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0490** | 0.0500 | 0 | 98.0 | 85 | 115 | 06/07/2023 |
| Calcium | | 0.100 | | **2.60** | 2.500 | 0 | 104.1 | 85 | 115 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.205** | 0.2000 | 0 | 102.4 | 85 | 115 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.197** | 0.2000 | 0 | 98.5 | 85 | 115 | 06/07/2023 |
| Copper | | 0.0050 | | **0.246** | 0.2500 | 0 | 98.4 | 85 | 115 | 06/06/2023 |
| Copper | | 0.0050 | | **0.248** | 0.2500 | 0 | 99.2 | 85 | 115 | 06/07/2023 |
| Iron | | 0.0400 | | **2.06** | 2.000 | 0 | 103.0 | 85 | 115 | 06/06/2023 |
| Iron | | 0.0400 | | **1.96** | 2.000 | 0 | 98.1 | 85 | 115 | 06/07/2023 |
| Lead | | 0.0150 | | **0.490** | 0.5000 | 0 | 98.0 | 85 | 115 | 06/07/2023 |
| Lead | | 0.0150 | | **0.518** | 0.5000 | 0 | 103.7 | 85 | 115 | 06/06/2023 |
| Lithium | * | 0.0050 | | **0.513** | 0.5000 | 0 | 102.6 | 85 | 115 | 06/07/2023 |
| Lithium | * | 0.0050 | S | **0.613** | 0.5000 | 0 | 122.6 | 85 | 115 | 06/14/2023 |
| Lithium | * | 0.0050 | | **0.568** | 0.5000 | 0 | 113.5 | 85 | 115 | 06/15/2023 |
| Magnesium | | 0.0500 | | **2.47** | 2.500 | 0 | 98.7 | 85 | 115 | 06/06/2023 |
| Magnesium | | 0.0500 | | **2.45** | 2.500 | 0 | 98.1 | 85 | 115 | 06/07/2023 |
| Manganese | | 0.0070 | | **0.498** | 0.5000 | 0 | 99.6 | 85 | 115 | 06/07/2023 |
| Manganese | | 0.0070 | | **0.512** | 0.5000 | 0 | 102.3 | 85 | 115 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.492** | 0.5000 | 0 | 98.3 | 85 | 115 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.475** | 0.5000 | 0 | 95.0 | 85 | 115 | 06/07/2023 |
| Potassium | | 0.100 | | **2.50** | 2.500 | 0 | 100.1 | 85 | 115 | 06/06/2023 |
| Potassium | | 0.100 | | **2.75** | 2.500 | 0 | 109.9 | 85 | 115 | 06/07/2023 |
| Silicon | * | 0.0500 | B | **0.557** | 0.5000 | 0 | 111.5 | 85 | 115 | 06/07/2023 |
| Sodium | | 0.0500 | | **2.49** | 2.500 | 0 | 99.6 | 85 | 115 | 06/06/2023 |
| Sodium | | 0.0500 | | **2.51** | 2.500 | 0 | 100.5 | 85 | 115 | 06/07/2023 |
| Zinc | | 0.0100 | | **0.492** | 0.5000 | 0 | 98.3 | 85 | 115 | 06/07/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206885 **SampType:** LCS Units **mg/L**
SampID: LCS-206885

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | | 0.0100 | | **0.506** | 0.5000 | 0 | 101.2 | 85 | 115 | 06/06/2023 |

**Batch** 206885 **SampType:** MS Units **mg/L**
SampID: 23051600-029CMS

| 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 | 75 | 125 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.553** | 0.5000 | 0 | 110.6 | 75 | 125 | 06/06/2023 |
| Barium | | 0.0025 | | **2.14** | 2.000 | 0.03980 | 105.0 | 75 | 125 | 06/06/2023 |
| Boron | | 0.0200 | | **2.51** | 0.5000 | 1.928 | 116.2 | 75 | 125 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0532** | 0.0500 | 0 | 106.4 | 75 | 125 | 06/06/2023 |
| Calcium | | 0.100 | S | **71.0** | 2.500 | 65.93 | 201.2 | 75 | 125 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.208** | 0.2000 | 0 | 104.2 | 75 | 125 | 06/06/2023 |
| Copper | | 0.0050 | | **0.262** | 0.2500 | 0.002000 | 104.2 | 75 | 125 | 06/06/2023 |
| Iron | | 0.0400 | | **2.08** | 2.000 | 0 | 104.0 | 75 | 125 | 06/06/2023 |
| Lead | | 0.0150 | | **0.522** | 0.5000 | 0 | 104.5 | 75 | 125 | 06/06/2023 |
| Magnesium | | 0.0500 | S | **31.9** | 2.500 | 28.49 | 138.1 | 75 | 125 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.565** | 0.5000 | 0.04800 | 103.4 | 75 | 125 | 06/06/2023 |
| Potassium | | 0.100 | | **9.25** | 2.500 | 6.688 | 102.6 | 75 | 125 | 06/06/2023 |
| Sodium | | 0.0500 | S | **47.4** | 2.500 | 43.95 | 137.2 | 75 | 125 | 06/06/2023 |
| Zinc | | 0.0100 | | **0.530** | 0.5000 | 0 | 106.1 | 75 | 125 | 06/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 206885 **SampType:** MSD Units **mg/L** RPD Limit: **20**

SampID: 23051600-029CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **2.03** | 2.000 | 0 | 101.5 | 2.030 | 0.00 | 06/06/2023 |
| Arsenic | | 0.0250 | | **0.561** | 0.5000 | 0 | 112.3 | 0.5532 | 1.47 | 06/06/2023 |
| Barium | | 0.0025 | | **2.14** | 2.000 | 0.03980 | 105.0 | 2.140 | 0.00 | 06/06/2023 |
| Boron | | 0.0200 | | **2.52** | 0.5000 | 1.928 | 119.3 | 2.510 | 0.60 | 06/06/2023 |
| Cadmium | | 0.0020 | | **0.0534** | 0.0500 | 0 | 106.8 | 0.05320 | 0.38 | 06/06/2023 |
| Calcium | | 0.100 | S | **71.6** | 2.500 | 65.93 | 225.2 | 70.96 | 0.84 | 06/06/2023 |
| Chromium | | 0.0050 | | **0.208** | 0.2000 | 0 | 104.2 | 0.2083 | 0.00 | 06/06/2023 |
| Copper | | 0.0050 | | **0.261** | 0.2500 | 0.002000 | 103.7 | 0.2625 | 0.46 | 06/06/2023 |
| Iron | | 0.0400 | | **2.08** | 2.000 | 0 | 104.0 | 2.080 | 0.00 | 06/06/2023 |
| Lead | | 0.0150 | | **0.525** | 0.5000 | 0 | 105.0 | 0.5223 | 0.50 | 06/06/2023 |
| Magnesium | | 0.0500 | S | **32.1** | 2.500 | 28.49 | 145.7 | 31.94 | 0.59 | 06/06/2023 |
| Molybdenum | | 0.0100 | | **0.565** | 0.5000 | 0.04800 | 103.3 | 0.5649 | 0.05 | 06/06/2023 |
| Potassium | | 0.100 | | **9.26** | 2.500 | 6.688 | 103.0 | 9.252 | 0.13 | 06/06/2023 |
| Sodium | | 0.0500 | S | **47.5** | 2.500 | 43.95 | 140.8 | 47.38 | 0.19 | 06/06/2023 |
| Zinc | | 0.0100 | | **0.530** | 0.5000 | 0 | 106.0 | 0.5304 | 0.04 | 06/06/2023 |

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 207204 **SampType:** MBLK Units **mg/L**

SampID: MBLK-207204

| 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 | 06/14/2023 |
| Aluminum | | 0.0250 | | **< 0.0250** | 0.0127 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Arsenic | | 0.0250 | | **< 0.0250** | 0.0087 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Barium | | 0.0025 | | **< 0.0025** | 0.0007 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Beryllium | | 0.0005 | | **< 0.0005** | 0.0002 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Boron | | 0.0200 | | **< 0.0200** | 0.0090 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Cadmium | | 0.0020 | | **< 0.0020** | 0.0005 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Calcium | | 0.100 | | **< 0.100** | 0.0350 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Chromium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Copper | | 0.0050 | | **< 0.0050** | 0.0013 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Iron | | 0.0400 | | **< 0.0400** | 0.0200 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0040 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Lead | | 0.0150 | | **< 0.0150** | 0.0014 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Lithium | * | 0.0050 | S | **0.0864** | 0.0019 | 0 | 4547 | -100 | 100 | 06/16/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Magnesium | | 0.0500 | | **< 0.0500** | 0.0055 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Manganese | | 0.0070 | | **< 0.0070** | 0.0025 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Molybdenum | | 0.0100 | | **< 0.0100** | 0.0037 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Potassium | | 0.100 | | **< 0.100** | 0.0400 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Silicon | * | 0.0500 | | **< 0.0500** | 0.0122 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/14/2023 |
| Sodium | | 0.0500 | | **< 0.0500** | 0.0180 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/13/2023 |
| Zinc | | 0.0100 | | **< 0.0100** | 0.0050 | 0 | 0 | -100 | 100 | 06/14/2023 |

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# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 207204 **SampType:** MBLK Units **mg/L**
SampID: MBLK-207204

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|

Teklab, Inc. Environmental Laboratory

# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 207204 **SampType:** LCS Units **mg/L**

SampID: LCS-207204

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | 0.0250 | | **1.96** | 2.000 | 0 | 98.1 | 85 | 115 | 06/13/2023 |
| Aluminum | | 0.0250 | | **1.92** | 2.000 | 0 | 96.1 | 85 | 115 | 06/14/2023 |
| Arsenic | | 0.0250 | | **0.521** | 0.5000 | 0 | 104.2 | 85 | 115 | 06/13/2023 |
| Arsenic | | 0.0250 | | **0.516** | 0.5000 | 0 | 103.1 | 85 | 115 | 06/14/2023 |
| Barium | | 0.0025 | | **2.10** | 2.000 | 0 | 105.0 | 85 | 115 | 06/13/2023 |
| Barium | | 0.0025 | | **1.95** | 2.000 | 0 | 97.3 | 85 | 115 | 06/14/2023 |
| Beryllium | | 0.0005 | | **0.0512** | 0.0500 | 0 | 102.4 | 85 | 115 | 06/13/2023 |
| Beryllium | | 0.0005 | | **0.0494** | 0.0500 | 0 | 98.8 | 85 | 115 | 06/14/2023 |
| Boron | | 0.0200 | | **0.517** | 0.5000 | 0 | 103.5 | 85 | 115 | 06/13/2023 |
| Boron | | 0.0200 | | **0.495** | 0.5000 | 0 | 99.0 | 85 | 115 | 06/14/2023 |
| Cadmium | | 0.0020 | | **0.0520** | 0.0500 | 0 | 104.0 | 85 | 115 | 06/13/2023 |
| Cadmium | | 0.0020 | | **0.0501** | 0.0500 | 0 | 100.2 | 85 | 115 | 06/14/2023 |
| Calcium | | 0.100 | | **2.59** | 2.500 | 0 | 103.6 | 85 | 115 | 06/14/2023 |
| Calcium | | 0.100 | | **2.67** | 2.500 | 0 | 106.7 | 85 | 115 | 06/13/2023 |
| Chromium | | 0.0050 | | **0.207** | 0.2000 | 0 | 103.7 | 85 | 115 | 06/13/2023 |
| Chromium | | 0.0050 | | **0.197** | 0.2000 | 0 | 98.7 | 85 | 115 | 06/14/2023 |
| Copper | | 0.0050 | | **0.254** | 0.2500 | 0 | 101.6 | 85 | 115 | 06/14/2023 |
| Copper | | 0.0050 | | **0.256** | 0.2500 | 0 | 102.6 | 85 | 115 | 06/13/2023 |
| Iron | | 0.0400 | | **2.15** | 2.000 | 0 | 107.5 | 85 | 115 | 06/13/2023 |
| Iron | | 0.0400 | | **1.97** | 2.000 | 0 | 98.6 | 85 | 115 | 06/14/2023 |
| Lead | | 0.0150 | | **0.515** | 0.5000 | 0 | 103.1 | 85 | 115 | 06/13/2023 |
| Lead | | 0.0150 | | **0.494** | 0.5000 | 0 | 98.8 | 85 | 115 | 06/14/2023 |
| Lithium | * | 0.0050 | B | **0.544** | 0.5000 | 0 | 108.8 | 85 | 115 | 06/16/2023 |
| Magnesium | | 0.0500 | | **2.42** | 2.500 | 0 | 96.9 | 85 | 115 | 06/13/2023 |
| Magnesium | | 0.0500 | | **2.45** | 2.500 | 0 | 97.8 | 85 | 115 | 06/14/2023 |
| Manganese | | 0.0070 | | **0.494** | 0.5000 | 0 | 98.8 | 85 | 115 | 06/14/2023 |
| Manganese | | 0.0070 | | **0.529** | 0.5000 | 0 | 105.8 | 85 | 115 | 06/13/2023 |
| Molybdenum | | 0.0100 | | **0.481** | 0.5000 | 0 | 96.3 | 85 | 115 | 06/14/2023 |
| Molybdenum | | 0.0100 | | **0.504** | 0.5000 | 0 | 100.8 | 85 | 115 | 06/13/2023 |
| Potassium | | 0.100 | | **2.60** | 2.500 | 0 | 104.0 | 85 | 115 | 06/13/2023 |
| Potassium | | 0.100 | | **2.43** | 2.500 | 0 | 97.3 | 85 | 115 | 06/14/2023 |
| Silicon | * | 0.0500 | | **0.501** | 0.5000 | 0 | 100.3 | 85 | 115 | 06/14/2023 |
| Sodium | | 0.0500 | | **2.45** | 2.500 | 0 | 98.1 | 85 | 115 | 06/13/2023 |
| Sodium | | 0.0500 | | **2.41** | 2.500 | 0 | 96.5 | 85 | 115 | 06/14/2023 |
| Zinc | | 0.0100 | | **0.498** | 0.5000 | 0 | 99.6 | 85 | 115 | 06/14/2023 |
| Zinc | | 0.0100 | | **0.507** | 0.5000 | 0 | 101.4 | 85 | 115 | 06/13/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

**Batch** 207204 **SampType:** LCS Units **mg/L**
SampID: LCS-207204

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 206871 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206871

| 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 | 06/05/2023 |
| Cobalt | | 0.0010 | | **< 0.0010** | 0.0001 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Selenium | | 0.0010 | | **< 0.0010** | 0.0006 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Thallium | | 0.0020 | | **< 0.0020** | 0.0010 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Vanadium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/05/2023 |

**Batch** 206871 **SampType:** LCS Units **mg/L**
SampID: LCS-206871

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.447** | 0.5000 | 0 | 89.5 | 80 | 120 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.461** | 0.5000 | 0 | 92.3 | 80 | 120 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.451** | 0.5000 | 0 | 90.2 | 80 | 120 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.218** | 0.2500 | 0 | 87.2 | 80 | 120 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.456** | 0.5000 | 0 | 91.2 | 80 | 120 | 06/05/2023 |

**Batch** 206871 **SampType:** MS Units **mg/L**
SampID: 23051600-003DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | | 0.0010 | | **0.473** | 0.5000 | 0.002202 | 94.2 | 75 | 125 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.456** | 0.5000 | 0 | 91.1 | 75 | 125 | 06/05/2023 |

**Batch** 206871 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-003DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | | 0.0010 | | **0.456** | 0.5000 | 0.002202 | 90.8 | 0.4734 | 3.68 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.451** | 0.5000 | 0 | 90.1 | 0.4557 | 1.12 | 06/05/2023 |

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# Quality Control Results

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**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 206871 **SampType:** MS Units **mg/L**
SampID: 23051600-008EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.449** | 0.5000 | 0 | 89.8 | 75 | 125 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.435** | 0.5000 | 0.0006618 | 87.0 | 75 | 125 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.459** | 0.5000 | 0.001402 | 91.5 | 75 | 125 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.219** | 0.2500 | 0 | 87.6 | 75 | 125 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.446** | 0.5000 | 0 | 89.1 | 75 | 125 | 06/05/2023 |

**Batch** 206871 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-008EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.453** | 0.5000 | 0 | 90.6 | 0.4491 | 0.89 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.423** | 0.5000 | 0.0006618 | 84.5 | 0.4354 | 2.89 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.442** | 0.5000 | 0.001402 | 88.0 | 0.4590 | 3.85 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.215** | 0.2500 | 0 | 86.2 | 0.2190 | 1.63 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.431** | 0.5000 | 0 | 86.2 | 0.4457 | 3.38 | 06/05/2023 |

**Batch** 206873 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206873

| 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 | 06/05/2023 |
| Cobalt | | 0.0010 | | **< 0.0010** | 0.0001 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Selenium | | 0.0010 | | **< 0.0010** | 0.0006 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Thallium | | 0.0020 | | **< 0.0020** | 0.0010 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Vanadium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/05/2023 |

**Batch** 206873 **SampType:** LCS Units **mg/L**
SampID: LCS-206873

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.447** | 0.5000 | 0 | 89.4 | 80 | 120 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.463** | 0.5000 | 0 | 92.6 | 80 | 120 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.442** | 0.5000 | 0 | 88.4 | 80 | 120 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.220** | 0.2500 | 0 | 87.9 | 80 | 120 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.450** | 0.5000 | 0 | 89.9 | 80 | 120 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

**Batch** 206873 **SampType:** MS Units **mg/L**
SampID: 23051600-044EMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.905** | 1.000 | 0 | 90.5 | 75 | 125 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.812** | 1.000 | 0 | 81.2 | 75 | 125 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.807** | 1.000 | 0 | 80.7 | 75 | 125 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.406** | 0.5000 | 0 | 81.2 | 75 | 125 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.813** | 1.000 | 0 | 81.3 | 75 | 125 | 06/05/2023 |

**Batch** 206873 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-044EMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.922** | 1.000 | 0 | 92.2 | 0.9050 | 1.85 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.814** | 1.000 | 0 | 81.4 | 0.8117 | 0.24 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.790** | 1.000 | 0 | 79.0 | 0.8065 | 2.08 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.403** | 0.5000 | 0 | 80.6 | 0.4060 | 0.74 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.814** | 1.000 | 0 | 81.4 | 0.8126 | 0.16 | 06/05/2023 |

**Batch** 206891 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206891

| 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 | 06/06/2023 |
| Cobalt | | 0.0010 | | **< 0.0010** | 0.0001 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Selenium | | 0.0010 | | **< 0.0010** | 0.0006 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Thallium | | 0.0020 | | **< 0.0020** | 0.0010 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Vanadium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/06/2023 |

**Batch** 206891 **SampType:** LCS Units **mg/L**
SampID: LCS-206891

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.433** | 0.5000 | 0 | 86.5 | 80 | 120 | 06/06/2023 |
| Cobalt | | 0.0010 | | **0.449** | 0.5000 | 0 | 89.8 | 80 | 120 | 06/06/2023 |
| Selenium | | 0.0010 | | **0.447** | 0.5000 | 0 | 89.4 | 80 | 120 | 06/06/2023 |
| Thallium | | 0.0020 | | **0.211** | 0.2500 | 0 | 84.5 | 80 | 120 | 06/07/2023 |
| Vanadium | | 0.0050 | | **0.434** | 0.5000 | 0 | 86.8 | 80 | 120 | 06/06/2023 |

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# Quality Control Results

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**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 206856 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206856

| 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 | 06/05/2023 |
| Cobalt | | 0.0010 | | **< 0.0010** | 0.0001 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Selenium | | 0.0010 | | **< 0.0010** | 0.0006 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Thallium | | 0.0020 | | **< 0.0020** | 0.0010 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Vanadium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/05/2023 |

**Batch** 206856 **SampType:** LCS Units **mg/L**
SampID: LCS-206856

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.493** | 0.5000 | 0 | 98.5 | 80 | 120 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.469** | 0.5000 | 0 | 93.8 | 80 | 120 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.494** | 0.5000 | 0 | 98.8 | 80 | 120 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.229** | 0.2500 | 0 | 91.6 | 80 | 120 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.468** | 0.5000 | 0 | 93.6 | 80 | 120 | 06/05/2023 |

**Batch** 206856 **SampType:** MS Units **mg/L**
SampID: 23051600-007DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.497** | 0.5000 | 0 | 99.5 | 75 | 125 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.461** | 0.5000 | 0.004599 | 91.2 | 75 | 125 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.491** | 0.5000 | 0 | 98.1 | 75 | 125 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.237** | 0.2500 | 0 | 94.7 | 75 | 125 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.475** | 0.5000 | 0 | 95.0 | 75 | 125 | 06/05/2023 |

**Batch** 206856 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-007DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.489** | 0.5000 | 0 | 97.8 | 0.4974 | 1.66 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.461** | 0.5000 | 0.004599 | 91.3 | 0.4607 | 0.07 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.503** | 0.5000 | 0 | 100.5 | 0.4905 | 2.45 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.235** | 0.2500 | 0 | 94.1 | 0.2368 | 0.69 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.472** | 0.5000 | 0 | 94.4 | 0.4752 | 0.64 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 206856 **SampType:** MS Units **mg/L**
SampID: 23051600-024CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.491** | 0.5000 | 0 | 98.2 | 75 | 125 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.479** | 0.5000 | 0.001809 | 95.4 | 75 | 125 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.522** | 0.5000 | 0 | 104.5 | 75 | 125 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.240** | 0.2500 | 0 | 95.9 | 75 | 125 | 06/05/2023 |

**Batch** 206856 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-024CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.503** | 0.5000 | 0 | 100.5 | 0.4909 | 2.36 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.492** | 0.5000 | 0.001809 | 98.1 | 0.4789 | 2.74 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.542** | 0.5000 | 0 | 108.5 | 0.5223 | 3.75 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.251** | 0.2500 | 0 | 100.5 | 0.2397 | 4.75 | 06/05/2023 |

**Batch** 206857 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206857

| 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 | 06/05/2023 |
| Cobalt | | 0.0010 | | **< 0.0010** | 0.0001 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Selenium | | 0.0010 | | **< 0.0010** | 0.0006 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Thallium | | 0.0020 | | **< 0.0020** | 0.0010 | 0 | 0 | -100 | 100 | 06/05/2023 |
| Vanadium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/05/2023 |

**Batch** 206857 **SampType:** LCS Units **mg/L**
SampID: LCS-206857

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.512** | 0.5000 | 0 | 102.4 | 80 | 120 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.473** | 0.5000 | 0 | 94.7 | 80 | 120 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.482** | 0.5000 | 0 | 96.4 | 80 | 120 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.235** | 0.2500 | 0 | 94.2 | 80 | 120 | 06/05/2023 |
| Vanadium | | 0.0050 | | **0.471** | 0.5000 | 0 | 94.2 | 80 | 120 | 06/05/2023 |

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# Quality Control Results



**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 206857 **SampType:** MS Units **mg/L**
SampID: 23051600-032CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.505** | 0.5000 | 0.0008773 | 100.8 | 75 | 125 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.462** | 0.5000 | 0.0005179 | 92.3 | 75 | 125 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.505** | 0.5000 | 0.001397 | 100.7 | 75 | 125 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.238** | 0.2500 | 0 | 95.2 | 75 | 125 | 06/05/2023 |

**Batch** 206857 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-032CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.513** | 0.5000 | 0.0008773 | 102.4 | 0.5047 | 1.60 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.466** | 0.5000 | 0.0005179 | 93.1 | 0.4621 | 0.85 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.516** | 0.5000 | 0.001397 | 103.0 | 0.5048 | 2.29 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.242** | 0.2500 | 0 | 96.9 | 0.2379 | 1.80 | 06/05/2023 |

**Batch** 206857 **SampType:** MS Units **mg/L**
SampID: 23051600-037CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.514** | 0.5000 | 0 | 102.9 | 75 | 125 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.469** | 0.5000 | 0.0001901 | 93.8 | 75 | 125 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.505** | 0.5000 | 0.001439 | 100.8 | 75 | 125 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.243** | 0.2500 | 0 | 97.0 | 75 | 125 | 06/05/2023 |

**Batch** 206857 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-037CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.504** | 0.5000 | 0 | 100.8 | 0.5144 | 2.00 | 06/05/2023 |
| Cobalt | | 0.0010 | | **0.454** | 0.5000 | 0.0001901 | 90.7 | 0.4694 | 3.43 | 06/05/2023 |
| Selenium | | 0.0010 | | **0.478** | 0.5000 | 0.001439 | 95.4 | 0.5054 | 5.52 | 06/05/2023 |
| Thallium | | 0.0020 | | **0.237** | 0.2500 | 0 | 94.7 | 0.2426 | 2.43 | 06/05/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results

http://www.teklabinc.com/

**Client:** Ramboll **Work Order:** 23051600

**Client Project:** HEN-23Q2 **Report Date:** 21-Jun-23

## SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

**Batch** 206885 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206885

| 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 | 06/06/2023 |
| Cobalt | | 0.0010 | | **< 0.0010** | 0.0001 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Selenium | | 0.0010 | | **< 0.0010** | 0.0006 | 0 | 0 | -100 | 100 | 06/06/2023 |
| Thallium | | 0.0020 | | **< 0.0020** | 0.0010 | 0 | 0 | -100 | 100 | 06/07/2023 |
| Vanadium | | 0.0050 | | **< 0.0050** | 0.0028 | 0 | 0 | -100 | 100 | 06/06/2023 |

**Batch** 206885 **SampType:** LCS Units **mg/L**
SampID: LCS-206885

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | 0.0010 | | **0.525** | 0.5000 | 0 | 104.9 | 80 | 120 | 06/06/2023 |
| Cobalt | | 0.0010 | | **0.512** | 0.5000 | 0 | 102.5 | 80 | 120 | 06/06/2023 |
| Selenium | | 0.0010 | | **0.547** | 0.5000 | 0 | 109.3 | 80 | 120 | 06/06/2023 |
| Thallium | | 0.0020 | | **0.232** | 0.2500 | 0 | 92.6 | 80 | 120 | 06/07/2023 |
| Vanadium | | 0.0050 | | **0.503** | 0.5000 | 0 | 100.7 | 80 | 120 | 06/06/2023 |

**Batch** 206885 **SampType:** MS Units **mg/L**
SampID: 23051600-029CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | | 0.0010 | | **0.538** | 0.5000 | 0.003991 | 106.9 | 75 | 125 | 06/06/2023 |
| Vanadium | | 0.0050 | | **0.494** | 0.5000 | 0.005282 | 97.7 | 75 | 125 | 06/06/2023 |

**Batch** 206885 **SampType:** MSD Units **mg/L** RPD Limit: **20**
SampID: 23051600-029CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium | | 0.0010 | | **0.499** | 0.5000 | 0.003991 | 99.0 | 0.5384 | 7.56 | 06/06/2023 |
| Vanadium | | 0.0050 | | **0.466** | 0.5000 | 0.005282 | 92.1 | 0.4935 | 5.84 | 06/06/2023 |

## SW-846 7470A (DISSOLVED)

**Batch** 206867 **SampType:** MS Units **mg/L**
SampID: 23051600-003DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00497** | 0.0050 | 0 | 99.4 | 75 | 125 | 06/05/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 7470A (DISSOLVED)

**Batch** 206867 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-003DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00493** | 0.0050 | 0 | 98.5 | 0.004970 | 0.89 | 06/05/2023 |

**Batch** 206893 **SampType:** MS Units **mg/L**
SampID: 23051600-029DMS

| 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 | 75 | 125 | 06/05/2023 |

**Batch** 206893 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-029DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00523** | 0.0050 | 0 | 104.5 | 0.005132 | 1.85 | 06/05/2023 |

## SW-846 7470A (TOTAL)

**Batch** 206867 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206867

| 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 | 06/05/2023 |

**Batch** 206867 **SampType:** LCS Units **mg/L**
SampID: LCS-206867

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00486** | 0.0050 | 0 | 97.2 | 85 | 115 | 06/05/2023 |

**Batch** 206867 **SampType:** MS Units **mg/L**
SampID: 23051600-014DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00502** | 0.0050 | 0 | 100.5 | 75 | 125 | 06/05/2023 |

**Batch** 206867 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-014DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00521** | 0.0050 | 0 | 104.1 | 0.005023 | 3.59 | 06/05/2023 |

Teklab, Inc.
Environmental Laboratory

# Quality Control Results



**Client:** Ramboll
**Work Order:** 23051600
**Client Project:** HEN-23Q2
**Report Date:** 21-Jun-23

## SW-846 7470A (TOTAL)

**Batch** 206869 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206869

| 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 | 06/05/2023 |

**Batch** 206869 **SampType:** LCS Units **mg/L**
SampID: LCS-206869

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00490** | 0.0050 | 0 | 98.1 | 85 | 115 | 06/05/2023 |

**Batch** 206869 **SampType:** MS Units **mg/L**
SampID: 23051600-019CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00521** | 0.0050 | 0 | 104.3 | 75 | 125 | 06/05/2023 |

**Batch** 206869 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-019CMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00501** | 0.0050 | 0 | 100.1 | 0.005215 | 4.10 | 06/05/2023 |

**Batch** 206893 **SampType:** MBLK Units **mg/L**
SampID: MBLK-206893

| 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 | 06/05/2023 |

**Batch** 206893 **SampType:** LCS Units **mg/L**
SampID: LCS-206893

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00511** | 0.0050 | 0 | 102.2 | 85 | 115 | 06/05/2023 |

**Batch** 206893 **SampType:** MS Units **mg/L**
SampID: 23051600-005DMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00501** | 0.0050 | 0 | 100.2 | 75 | 125 | 06/05/2023 |

**Batch** 206893 **SampType:** MSD Units **mg/L** RPD Limit: **15**
SampID: 23051600-005DMSD

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | 0.00020 | | **0.00476** | 0.0050 | 0 | 95.3 | 0.005009 | 5.04 | 06/05/2023 |

Teklab, Inc.
Environmental Laboratory

# Receiving Check List

http://www.teklabinc.com/

**Client:** Ramboll
**Client Project:** HEN-23Q2

**Work Order:** 23051600
**Report Date:** 21-Jun-23

**Carrier:** Joe Riley
**Received By:** ANC

**Completed by:** Allison Colin
**On:** 02-Jun-23

**Reviewed by:** Ellie Hopkins
**On:** 02-Jun-23

**Pages to follow:** Chain of custody 6 Extra pages included 0

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 5.4 |
| 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 #88374/79929. - TWM/acolin - 6/1/2023 3:15:29 PM

Additional HNO3 (89071) was needed in Field Blank and additonal NaOH (81662) was needed in HEN-18&D upon arrival at the laboratory. - TWM/acolin - 6/1/2023 3:15:51 PM

Per Joe Riley, 22 and 22D bottles were switched in the field. - EAH 6/1/23

Samples collected on 6/1/23 were delivered same-day at 14.4C (on ice - LTG 5). - ehurley - 6/5/2023 3:49:12 PM

# CHAIN-OF-CUSTODY / Analytical Request Document

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

2305L600 HEN-257-803

Page: 1 of 3

**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 | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | HEN-02 | | | | | | 7 | 3 | | 1 | 2 | 1 | | | | | | | | | | | | | | | ✓ | | | 2305L600-001 |
| 2 | HEN-03R | | | 5-31-23 | 1312 | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 002 |
| 3 | HEN-05IR | | | 5-31-23 | 1517 | | 9 | 2 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | | | | 003 |
| 4 | HEN-05&DR | | | 5-31-23 | 1458 | | 9 | 2 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | | | | 004 |
| 5 | HEN-07 | | | | | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | 005 |
| 6 | HEN-08 | TP GW | | ~~5-31-23~~ | ~~1510~~ ★ | | 11 | 3 | 3 | 2 | 2 | 1 | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | 006 |
| 7 | HEN-08&D | GW | | 5/31/23 | 1510 | | 11 | 3 | 3 | 2 | 2 | 1 | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | 007 |
| 8 | HEN-10 | | | 5-31-23 | 922 | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | ✓ | | | 008 |
| 9 | HEN-12 | | | 5-31-23 | 1137 | | 10 | 2 | 3 | 2 | 2 | 1 | | | | | | ✓ | | ✓ | | ✓ | | | | ✓ | | | | 009 |
| 10 | HEN-13 | | | 5-31-23 | 1204 | | 10 | 2 | 3 | 2 | 2 | 1 | | | | | | ✓ | | ✓ | | ✓ | | | | ✓ | | | | 010 |
| 11 | HEN-16 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 011 |
| 12 | HEN-17 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 012 |
| 13 | HEN-18#S | | | 5-31-23 | 1415 | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 013 |
| 14 | HEN-18&D | | | 5-31-23 | 1349 | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 014 |
| 15 | HEN-21R | | | 5-31-23 | 1109 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 015 |
| 16 | HEN-22 ⊕ | | | 5-31-23 | 1401 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 016 |

ADDED HNO3 TO DISS. FB
ADDED NaOH TO HEN 18D
TAL
48374/79929

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | [signature] Riley | 6/1/23 | 1201 | [signature] | 6/1/23 | 1201 | Temp in °C: 4 / Received on Ice (Y/N): N / Custody Sealed Cooler (Y/N): / Samples Intact (Y/N): |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Riley

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/1/23 1200

★ 08D was collected on 5/31/23 per Joe Riley. KAH 6/1/23

⊕ 22 and 22D bottles were switched in the field per Joe Riley. KAH 6/1/23

# 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: | 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 | Y/N | Analysis Test: HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-22&D | | | 5-31-23 | 1419 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 23051600-017 |
| 2 | HEN-23 | | | | 1200 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 018 |
| 3 | HEN-25 | | | | 1259 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | | | ✓ | ✓ | | | | 019 |
| 4 | HEN-26 | | | | 1241 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | | | ✓ | ✓ | | | | 020 |
| 5 | HEN-27 | | | | 0915 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 021 |
| 6 | HEN-30 | | | 5-30-23 | 1509 | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 022 |
| 7 | HEN-31 | | | 5-30-23 | 1504 | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 023 |
| 8 | HEN-32 | | | 5-31-23 | 0946 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 024 |
| 9 | HEN-33 | | | 5-30-23 | 1515 | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 025 |
| 10 | HEN-34 | | | 5-31-23 | 1039 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 026 |
| 11 | HEN-35 | | | 5-31-23 | 1009 | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 027 |
| 12 | HEN-36 | | | 5-30-23 | 1528 | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 028 |
| 13 | HEN-40#S | | | | | | 9 | 2 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | | | | | 029 |
| 14 | HEN-45#S | | | | | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 030 |
| 15 | HEN-46 | | | 5-31-23 | 1100 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | ✓ | | | | | 031 |
| 16 | HEN-47 | | | 5-31-23 | 956 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | ✓ | | | | | 032 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Tetra Tech | 6/1/23 | 1201 | | 6/1/23 | 1201 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Ritter

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 6/1/23

| 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: 3 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

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

MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED: DATE | TIME

SAMPLE TEMP AT COLLECTION

Preservatives: # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other

Requested Analysis Filtered (Y/N)

Y/N | Analysis Test | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D.

| ITEM # | SAMPLE ID | MATRIX CODE | SAMPLE TYPE | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-49 | | | 5-31-23 | 1219 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 23051600 - 033 |
| 2 | HEN-50 | | | ↓ | 1337 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 034 |
| 3 | HEN-51 | | | ↓ | 1137 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 035 |
| 4 | HEN-52 | | | | | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 036 |
| 5 | HEN-54 | | | 5-31-23 | 1027 | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 037 |
| 6 | HEN-55 | | | 5-30-23 | 1438 | | 0 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | | 038 |
| 7 | HEN-XPW01-pore | | | | | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | | | | | ✓ | | | | 039 |
| 8 | HEN-XPW02-pore | | | | | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | | | | | ✓ | | | | 040 |
| 9 | HEN-XPW03-pore | | | | | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | | | | | ✓ | | | | 041 |
| 10 | HEN-XSG01 | | | 5-30-23 | 1403 | | 0 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | | 042 |
| 11 | HEN-YSG-ILRIVER | | | 5-30-23 | 1371 | | 0 | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | | 043 |
| 12 | Field Blank | | | 6/1/23 | 0822 | | 11 | 3 | 3 | 2 | 2 | 1 | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | 044 |
| 13 | HEN-08 Duplicate | | | | | | 11 | 3 | 3 | 2 | 2 | 1 | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | | | 045 |
| 14 | | | | | | | | | | | | | | | | | | | | | | FE chem 5/3rd/83 | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Jeff Tebbs | 6/1/23 | 1201 | Allison Colen | 6/1 | 12:01 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Riley

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/1/23

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

2305 1600

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

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

Pees 88374 TC - 79929

| 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: HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-02 | | | 6/1/23 | 1102 | | 7 | 3 | | 1 | 2 | 1 | | | | | | | | | | | | | | | ✓ | | | 23051600-001 |
| 2 | HEN-03R | | | | | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 002 |
| 3 | HEN-05IR | | | | | | 9 | 2 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | | | | 003 |
| 4 | HEN-05&DR | | | | | | 9 | 2 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | | | | 004 |
| 5 | HEN-07 | | | 6-1-23 | 1145 | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | 005 |
| 6 | HEN-08 | | | 6-1-23 | 0854 | | 11 | 3 | 3 | 2 | 2 | 1 | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | 006 |
| 7 | HEN-08&D | | | ~~5-31-23~~ | ~~1510~~ | | 11 | 3 | 3 | 2 | 2 | 1 | | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | | | 007 |
| 8 | HEN-10 | | | | | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | ✓ | | | 008 |
| 9 | HEN-12 | | | | | | 10 | 2 | 3 | 2 | 2 | 1 | | | | | | ✓ | | ✓ | | ✓ | | | | ✓ | | | | 009 |
| 10 | HEN-13 | | | | | | 10 | 2 | 3 | 2 | 2 | 1 | | | | | | ✓ | | ✓ | | ✓ | | | | ✓ | | | | 010 |
| 11 | HEN-16 | | | 6-1-23 | 0940 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 011 |
| 12 | HEN-17 | | | 6-1-23 | 1008 | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 012 |
| 13 | HEN-18#S | | | | | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 013 |
| 14 | HEN-18&D | | | | | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | | ✓ | ✓ | | | 014 |
| 15 | HEN-21R | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 015 |
| 16 | HEN-22 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 016 |

Ø HEADSPACE TM

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Tracy Carroll | 6/1/23 | 1600 | [signature] | 6/1/23 | 1600 | 14.4 | Y | N | |
| | | | | | | | 4.6 | | | |

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: TCarroll BGillihan JCole

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 6/1/23

# CHAIN-OF-CUSTODY / Analytical Request Document

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

~~HEN-257-803~~ 23051600

Page: 2 of 3

**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: HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-22&D | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 23051600-017 |
| 2 | HEN-23 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 018 |
| 3 | HEN-25 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | | | ✓ | ✓ | | | | 019 |
| 4 | HEN-26 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | | | ✓ | ✓ | | | | 020 |
| 5 | HEN-27 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 021 |
| 6 | HEN-30 | | | | | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 022 |
| 7 | HEN-31 | | | | | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 023 |
| 8 | HEN-32 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 024 |
| 9 | HEN-33 | | | | | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 025 |
| 10 | HEN-34 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 026 |
| 11 | HEN-35 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 027 |
| 12 | HEN-36 | | | | | | 0 | | | | | | | | | | | | ✓ | | | | | | ✓ | | | | | 028 |
| 13 | HEN-40#S | | | 6-1-23 | 1034 | | 9 | 2 | 2 | 2 | 2 | 1 | | | | | | | | ✓ | | | | | | | | | | 029 |
| 14 | HEN-45#S | | | 6-1-23 | 1106 | | 10 | 3 | 2 | 2 | 2 | 1 | | | | | ✓ | | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | | | 030 |
| 15 | HEN-46 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | ✓ | | | | | 031 |
| 16 | HEN-47 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | | ✓ | | | | | 032 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Tmarie Carroll | 6/1/23 | 1600 | Elizabeth A Hurley | 6/1/23 | 1600 | |
| | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TCarroll BGillman JCole

SIGNATURE of SAMPLER: Tmarie Carroll DATE Signed (MM/DD/YY): 6/1/23

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

23051600

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 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

**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 ↓ HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-49 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 23051600 - 033 |
| 2 | HEN-50 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 034 |
| 3 | HEN-51 | | | | | | 6 | 2 | 2 | 2 | | | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | ✓ | | 035 |
| 4 | HEN-52 | | | 6/1/23 | 1029 | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 036 |
| 5 | HEN-54 | | | | | | 6 | 2 | 2 | 2 | | | | | | | ✓ | | | | ✓ | | | | ✓ | | | | 037 |
| 6 | HEN-55 | | | | | | 0 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | | 038 |
| 7 | HEN-XPW01-pore | | | 6/1/23 | 858 | | 6 | 2 | 2 | 2 | | | | | | | | | | | | | | | ✓ | | | | 039 |
| 8 | HEN-XPW02-pore | | | | 925 | | 6 | 2 | 2 | 2 | | | | | | | | | | | | | | | ✓ | | | | 040 |
| 9 | HEN-XPW03-pore | | | ↓ | 952 | | 6 | 2 | 2 | 2 | | | | | | | | | | | | | | | ✓ | | | | 041 |
| 10 | HEN-XSG01 | | | | | | 0 | | | | | | | | | | | | | | ✓ | | | | | | | | 042 |
| 11 | HEN-YSG-ILRIVER | | | | | | 0 | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | | | 043 |
| 12 | Field Blank | | | | | | 11 | 3 | 3 | 2 | 2 | 1 | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | 044 |
| 13 | HEN-08 Duplicate | | | 6-1-23 | 0854 | | 11 | 3 | 3 | 2 | 2 | 1 | | | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✗ | ✓ | | ✓ | ✓ | | | | 045 |
| 14 | | | | | | | | | | | | | | | | | | | | | | FE and Standards | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Tiffany Carroll | 6/1/23 | 1600 | Elizabeth A Hurley | 6/1/23 | 1600 | |

| SAMPLER NAME AND SIGNATURE | | | | | |
|---|---|---|---|---|---|
| PRINT Name of SAMPLER: | AC, BC, JC | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| SIGNATURE of SAMPLER: | Tiffany Carroll | DATE Signed (MM/DD/YY): 6/1/23 | | | | |

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

July 13, 2023

Eric Bauer
Ramboll
300 S. Wacker Drive
Suite 130
Chicago, IL 60606
TEL: (414) 837-3607
FAX: (414) 837-3608

| | |
|---|---|
| Illinois | 100226 |
| Kansas | E-10374 |
| Louisiana | 05002 |
| Louisiana | 05003 |
| Oklahoma | 9978 |

**RE:** HEN-23Q2 **WorkOrder:** 23051601

Dear Eric Bauer:

TEKLAB, INC received 30 samples on 6/1/2023 4:00:00 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



**Client:** Ramboll
**Client Project:** HEN-23Q2

**Work Order:** 23051601
**Report Date:** 13-Jul-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 | 37 |
| Dates Report | 38 |
| Receiving Check List | 40 |
| Chain of Custody | Appended |

# Definitions



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-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 ) |

Teklab, Inc.
Environmental Laboratory

# Definitions



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-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:** HEN-23Q2

**Work Order:** 23051601
**Report Date:** 13-Jul-23

**Cooler Receipt Temp:** 5.4 °C

An employee of Teklab, Inc. collected the sample(s).

HEN-18&D will be reported as collected at 1349 rather than 1359 per raw field file. EAH 7/13/23

Analyses were performed by Pace Analytical National. 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:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-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:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-001
**Client Sample ID:** HEN-03R
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 13:12

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-002
**Client Sample ID:** HEN-07
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 11:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-003
**Client Sample ID:** HEN-08
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 8:54

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-004 **Client Sample ID:** HEN-08D

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 15:10

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-005
**Client Sample ID:** HEN-12
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 11:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-006 **Client Sample ID:** HEN-13

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 12:04

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-007 **Client Sample ID:** HEN-16

**Matrix:** GROUNDWATER **Collection Date:** 06/01/2023 9:40

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-008
**Client Sample ID:** HEN-17
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 10:08

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-009
**Client Sample ID:** HEN-18#S
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 14:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/03/2023 16:14 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-010
**Client Sample ID:** HEN-18&D
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 13:49

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-011
**Client Sample ID:** HEN-21R
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 11:09

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-012
**Client Sample ID:** HEN-22
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 14:01

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-013
**Client Sample ID:** HEN-22&D
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 14:19

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-014 **Client Sample ID:** HEN-23

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 12:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-015
**Client Sample ID:** HEN-25
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 12:59

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-016 **Client Sample ID:** HEN-26

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 12:41

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-017
**Client Sample ID:** HEN-27
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 9:15

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-018 **Client Sample ID:** HEN-32

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 9:46

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-019
**Client Sample ID:** HEN-34
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 10:39

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-020
**Client Sample ID:** HEN-35
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 10:09

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-021
**Client Sample ID:** HEN-45#S
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 11:06

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-022
**Client Sample ID:** HEN-46
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 11:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-023
**Client Sample ID:** HEN-47
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 9:56

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

Teklab, Inc. Environmental Laboratory

# Laboratory Results



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

**Lab ID:** 23051601-024 **Client Sample ID:** HEN-49

**Matrix:** GROUNDWATER **Collection Date:** 05/31/2023 12:19

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-025
**Client Sample ID:** HEN-50
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 13:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-026
**Client Sample ID:** HEN-51
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 11:37

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-027
**Client Sample ID:** HEN-52
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 10:29

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-028
**Client Sample ID:** HEN-54
**Matrix:** GROUNDWATER
**Collection Date:** 05/31/2023 10:27

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-029
**Client Sample ID:** Field Blank
**Matrix:** AQUEOUS
**Collection Date:** 06/01/2023 8:22

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 16:26 | R331495 |

# Laboratory Results

Teklab, Inc.
Environmental Laboratory
http://www.teklabinc.com/

**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23
**Lab ID:** 23051601-030
**Client Sample ID:** HEN-08 Duplicate
**Matrix:** GROUNDWATER
**Collection Date:** 06/01/2023 8:54

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|---|
| **SEE ATTACHED FOR SUBCONTRACTING ANALYSIS** | | | | | | | | |
| Subcontracted Analysis | * | 0 | | **See Attached** | | 1 | 07/05/2023 21:27 | R331495 |

Teklab, Inc.
Environmental Laboratory

# Sample Summary



**Client:** Ramboll
**Client Project:** HEN-23Q2

**Work Order:** 23051601
**Report Date:** 13-Jul-23

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---|---|---|---|---|
| 23051601-001 | HEN-03R | Groundwater | 1 | 05/31/2023 13:12 |
| 23051601-002 | HEN-07 | Groundwater | 1 | 06/01/2023 11:45 |
| 23051601-003 | HEN-08 | Groundwater | 1 | 06/01/2023 8:54 |
| 23051601-004 | HEN-08D | Groundwater | 1 | 05/31/2023 15:10 |
| 23051601-005 | HEN-12 | Groundwater | 1 | 05/31/2023 11:37 |
| 23051601-006 | HEN-13 | Groundwater | 1 | 05/31/2023 12:04 |
| 23051601-007 | HEN-16 | Groundwater | 1 | 06/01/2023 9:40 |
| 23051601-008 | HEN-17 | Groundwater | 1 | 06/01/2023 10:08 |
| 23051601-009 | HEN-18#S | Groundwater | 1 | 05/31/2023 14:15 |
| 23051601-010 | HEN-18&D | Groundwater | 1 | 05/31/2023 13:49 |
| 23051601-011 | HEN-21R | Groundwater | 1 | 05/31/2023 11:09 |
| 23051601-012 | HEN-22 | Groundwater | 1 | 05/31/2023 14:01 |
| 23051601-013 | HEN-22&D | Groundwater | 1 | 05/31/2023 14:19 |
| 23051601-014 | HEN-23 | Groundwater | 1 | 05/31/2023 12:00 |
| 23051601-015 | HEN-25 | Groundwater | 1 | 05/31/2023 12:59 |
| 23051601-016 | HEN-26 | Groundwater | 1 | 05/31/2023 12:41 |
| 23051601-017 | HEN-27 | Groundwater | 1 | 05/31/2023 9:15 |
| 23051601-018 | HEN-32 | Groundwater | 1 | 05/31/2023 9:46 |
| 23051601-019 | HEN-34 | Groundwater | 1 | 05/31/2023 10:39 |
| 23051601-020 | HEN-35 | Groundwater | 1 | 05/31/2023 10:09 |
| 23051601-021 | HEN-45#S | Groundwater | 1 | 06/01/2023 11:06 |
| 23051601-022 | HEN-46 | Groundwater | 1 | 05/31/2023 11:00 |
| 23051601-023 | HEN-47 | Groundwater | 1 | 05/31/2023 9:56 |
| 23051601-024 | HEN-49 | Groundwater | 1 | 05/31/2023 12:19 |
| 23051601-025 | HEN-50 | Groundwater | 1 | 05/31/2023 13:37 |
| 23051601-026 | HEN-51 | Groundwater | 1 | 05/31/2023 11:37 |
| 23051601-027 | HEN-52 | Groundwater | 1 | 06/01/2023 10:29 |
| 23051601-028 | HEN-54 | Groundwater | 1 | 05/31/2023 10:27 |
| 23051601-029 | Field Blank | Aqueous | 1 | 06/01/2023 8:22 |
| 23051601-030 | HEN-08 Duplicate | Groundwater | 1 | 06/01/2023 8:54 |

Teklab, Inc. Environmental Laboratory

# Dates Report



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | Test Name | | | Prep Date/Time | Analysis Date/Time |
| 23051601-001A | HEN-03R | 05/31/2023 13:12 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-002A | HEN-07 | 06/01/2023 11:45 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-003A | HEN-08 | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-004A | HEN-08D | 05/31/2023 15:10 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-005A | HEN-12 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-006A | HEN-13 | 05/31/2023 12:04 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-007A | HEN-16 | 06/01/2023 9:40 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-008A | HEN-17 | 06/01/2023 10:08 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-009A | HEN-18#S | 05/31/2023 14:15 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/03/2023 16:14 |
| 23051601-010A | HEN-18&D | 05/31/2023 13:49 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-011A | HEN-21R | 05/31/2023 11:09 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-012A | HEN-22 | 05/31/2023 14:01 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-013A | HEN-22&D | 05/31/2023 14:19 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-014A | HEN-23 | 05/31/2023 12:00 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-015A | HEN-25 | 05/31/2023 12:59 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-016A | HEN-26 | 05/31/2023 12:41 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-017A | HEN-27 | 05/31/2023 9:15 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-018A | HEN-32 | 05/31/2023 9:46 | 06/01/2023 12:08 | | |

# Dates Report



**Client:** Ramboll **Work Order:** 23051601

**Client Project:** HEN-23Q2 **Report Date:** 13-Jul-23

| Sample ID | Client Sample ID | Collection Date | Received Date | | |
|---|---|---|---|---|---|
| | Test Name | | | Prep Date/Time | Analysis Date/Time |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-019A | HEN-34 | 05/31/2023 10:39 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-020A | HEN-35 | 05/31/2023 10:09 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-021A | HEN-45#S | 06/01/2023 11:06 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-022A | HEN-46 | 05/31/2023 11:00 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-023A | HEN-47 | 05/31/2023 9:56 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-024A | HEN-49 | 05/31/2023 12:19 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-025A | HEN-50 | 05/31/2023 13:37 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-026A | HEN-51 | 05/31/2023 11:37 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-027A | HEN-52 | 06/01/2023 10:29 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-028A | HEN-54 | 05/31/2023 10:27 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-029A | Field Blank | 06/01/2023 8:22 | 06/01/2023 12:08 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 16:26 |
| 23051601-030A | HEN-08 Duplicate | 06/01/2023 8:54 | 06/01/2023 16:00 | | |
| | See Attached for Subcontracting Analysis | | | | 07/05/2023 21:27 |

Teklab, Inc. Environmental Laboratory

# Receiving Check List



**Client:** Ramboll
**Work Order:** 23051601
**Client Project:** HEN-23Q2
**Report Date:** 13-Jul-23

**Carrier:** Joe Riley
**Received By:** ANC

**Completed by:** Allison Colin
**On:** 02-Jun-23

**Reviewed by:** Ellie Hopkins
**On:** 02-Jun-23

**Pages to follow:** Chain of custody 6 Extra pages included 51

| | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Present ☐ | Temp °C 5.4 |
| 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 #88374. - TWM/acolin - 6/1/2023 3:23:50 PM

Per Joe Riley, 22 and 22D bottles were switched in the field. - EAH 6/1/23

Samples collected on 6/1/23 were delivered same-day at 14.4C (on ice - LTG 5). - ehurley - 6/5/2023 3:57:25 PM

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

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

RADS √ on SS374

| 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 | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | HEN-03R | | | 5-31-23 | 1312 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 23051601-001 |
| 3 | HEN-05IR | | | ↓ | 1517 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HEN-05&DR | | | ↓ | 1458 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | HEN-07 | | | | | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 002 |
| 6 | HEN-08 | TF | | ~~5-31-23~~ | ~~1510~~ * | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 003 |
| 7 | HEN-08&D | Corr. 6/1/23 | | 5/31/23 | 1510 | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 004 |
| 8 | HEN-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | HEN-12 | | | 5-31-23 | 1137 | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 005 |
| 10 | HEN-13 | | | 5-31-23 | 1204 | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 006 |
| 11 | HEN-16 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 007 |
| 12 | HEN-17 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 008 |
| 13 | HEN-18#S | | | 5-31-23 | 1415 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 009 |
| 14 | HEN-18&D | | | 5-31-23 | 1359 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 010 |
| 15 | HEN-21R | | | 5-31-23 | 1109 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 011 |
| 16 | HEN-22 ⊕ | | | 5-31-23 | 1401 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 012 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | | 6/1/23 | 1201 | Allison Cole | 6/1 | 1201 | 5.4 / 6.2 #1 |
| Ra226/228 only. | | | | | | | |

| SAMPLER NAME AND SIGNATURE | | | |
|---|---|---|---|
| PRINT Name of SAMPLER: | Joe Riley / Justin Cole / Brett Gillihan / Traci Cole | | |
| SIGNATURE of SAMPLER: | | DATE Signed (MM/DD/YY): | 6/1/23 1208 |

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

* 08D was collected on 5/31/23 per Joe Riley. Start 6/1/23

⊕ 22 and 22D bottles were switched in the field. Start 6/1/23 (per Joe Riley)

# CHAIN-OF-CUSTODY / Analytical Request Document

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

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

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 | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-22&D ⊕ | | | 5-31-23 | 1419 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | 23051601-013 |
| 2 | HEN-23 | | | | 1200 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | 014 |
| 3 | HEN-25 | | | | 1259 | | 2 | | | 2 | | | | | | | | | | | | | | | | | ✓ | | | | 015 |
| 4 | HEN-26 | | | | 1241 | | 2 | | | 2 | | | | | | | | | | | | | | | | | ✓ | | | | 016 |
| 5 | HEN-27 | | | | 0915 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | 017 |
| 6 | HEN-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HEN-31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | HEN-32 | | | 5-31-23 | 0946 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | 018 |
| 9 | HEN-33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | HEN-34 | | | 5-31-23 | 1039 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | 019 |
| 11 | HEN-35 | | | 5-31-23 | 1009 | | 2 | | | 2 | | | | | | | | | | ✓ | | | | ✓ | | | | | | | 020 |
| 12 | HEN-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | HEN-40#S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | HEN-45#S | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | | 021 |
| 15 | HEN-46 | | | 5-31-23 | 1100 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 022 |
| 16 | HEN-47 | | | 5-31-23 | 956 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 023 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | [signature] RK/BS | 6/1/23 | 1201 | Allison Colen | 6/1 | 12:01 | |

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joey Ritel
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 6/1/23

| 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: 3 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

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 | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-846-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | HEN-49 | | | 5-31-23 | 1119 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 23051601-024 |
| 2 | HEN-50 | | | ↓ | 1337 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 025 |
| 3 | HEN-51 | | | ↓ | 1137 | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 026 |
| 4 | HEN-52 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 027 |
| 5 | HEN-54 | | | 5-31-23 | 1027 | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 028 |
| 6 | HEN-55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HEN-XPW01-pore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | HEN-XPW02-pore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | HEN-XPW03-pore | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | HEN-XSG01 | | | 5/30/23 | 1409 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | HEN-YSG-ILRIVER | | | ↓ | 1321 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Field Blank | | | 6/1/23 | 0822 | | 2 | | | 2 | | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | ✓ | | | | | 029 |
| 13 | HEN-08 Duplicate | | | | | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 030 |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Trietab | 6/1/23 | 1201 | Allison Cole | 6/1 | 12:01 | |

| 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: | Joe Riley | | | | | |
| SIGNATURE of SAMPLER: | | DATE Signed (MM/DD/YY): 6/1/23 | | | | |

# CHAIN-OF-CUSTODY / Analytical Request Document

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

23051601 HEN-257803

Page: 1 of 3

**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)

PACS/88374 Ta

| 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 | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | HEN-03R | | | | | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 23051601-001 |
| 3 | HEN-05IR | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | HEN-05&DR | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | HEN-07 | | | 6-1-23 | 1145 | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 002 |
| 6 | HEN-08 | | | 6-1-23 | 0854 | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 003 |
| 7 | HEN-08&D | | | | | | 2 | | | 2 | | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | | 004 |
| 8 | HEN-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | HEN-12 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 005 |
| 10 | HEN-13 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 006 |
| 11 | HEN-16 | | | 6-1-23 | 0940 | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 007 |
| 12 | HEN-17 | | | 6-1-23 | 1008 | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 008 |
| 13 | HEN-18#S | | | | | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 009 |
| 14 | HEN-18&D | | | | | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 010 |
| 15 | HEN-21R | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 011 |
| 16 | HEN-22 | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 012 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **HEN-23Q2 Rev 1** | Tracy Carroll | 6/1/23 | 1600 | Elizabeth A Thaler | 6/1/23 | 1600 | 14.4 | Y | N | |
| RA-22Hg/228 only. | | | | | | | Ice | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: TAC, BAR, JC

SIGNATURE of SAMPLER: Tracy Carroll DATE Signed (MM/DD/YY): 6/1/23

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

HEN-23051601

# 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 | Analysis Test ↓ Y/N | HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-22&D | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 23051601-013 |
| 2 | HEN-23 | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 014 |
| 3 | HEN-25 | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | ✓ | | | | 015 |
| 4 | HEN-26 | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | ✓ | | | | 016 |
| 5 | HEN-27 | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 017 |
| 6 | HEN-30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HEN-31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | HEN-32 | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 018 |
| 9 | HEN-33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | HEN-34 | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 019 |
| 11 | HEN-35 | | | | | | 2 | | | 2 | | | | | | | | | ✓ | | | | ✓ | | | | | | | 020 |
| 12 | HEN-36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | HEN-40#S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | HEN-45#S | | | 6-1-23 | 1106 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | | | 021 |
| 15 | HEN-46 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 022 |
| 16 | HEN-47 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | | 023 |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Tiffany Carroll | 6/1/23 | 1600 | Elizabeth A Hurley | 6/1/23 | 1600 | |

| 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: | TAC, BG, JC | | | | | |
| SIGNATURE of SAMPLER: | Tiffany Carroll | DATE Signed (MM/DD/YY): 6/1/23 | | | | |

HEN-257-803 23051601

# 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

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: HEN-257-802 | HEN-257-803 | HEN-257-804 | HEN-811-801 | HEN-845-802-805 | HEN-845-803 | HEN-845-804 | HEN-CLOSURE-802-805 | HEN-CLOSURE-804 | HEN-SUP-000 | HEN-WPCP-East | HEN-WPCP-West | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN-49 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | 23051601-024 |
| 2 | HEN-50 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | 025 |
| 3 | HEN-51 | | | | | | 2 | | | 2 | | | | | | | | ✓ | | | | ✓ | | | | | | | 026 |
| 4 | HEN-52 | | | 6/1/23 | 1029 | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | 027 |
| 5 | HEN-54 | | | | | | 2 | | | 2 | | | | | | | ✓ | | | | ✓ | | | | | | | 028 |
| 6 | HEN-55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | HEN-XPW01-pore | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | HEN-XPW02-pore | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | HEN-XPW03-pore | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | HEN-XSG01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | HEN-YSG-ILRIVER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Field Blank | | | | | | 2 | | | 2 | | | | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | | | ✓ | | | | 029 |
| 13 | HEN-08 Duplicate | | | 6-1-23 | 0854 | | 2 | | | 2 | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | | | | | 030 |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q2 Rev 1 | Brian Carroll | 6/1/23 | 1600 | Elizabeth A Stanley | 6/1/23 | 1600 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JAE, BG, JC

SIGNATURE of SAMPLER: Brian 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) |
|---|---|---|---|
| | | | |

Pace Analytical®

# ANALYTICAL REPORT

July 12, 2023



## TEKLAB, Inc.

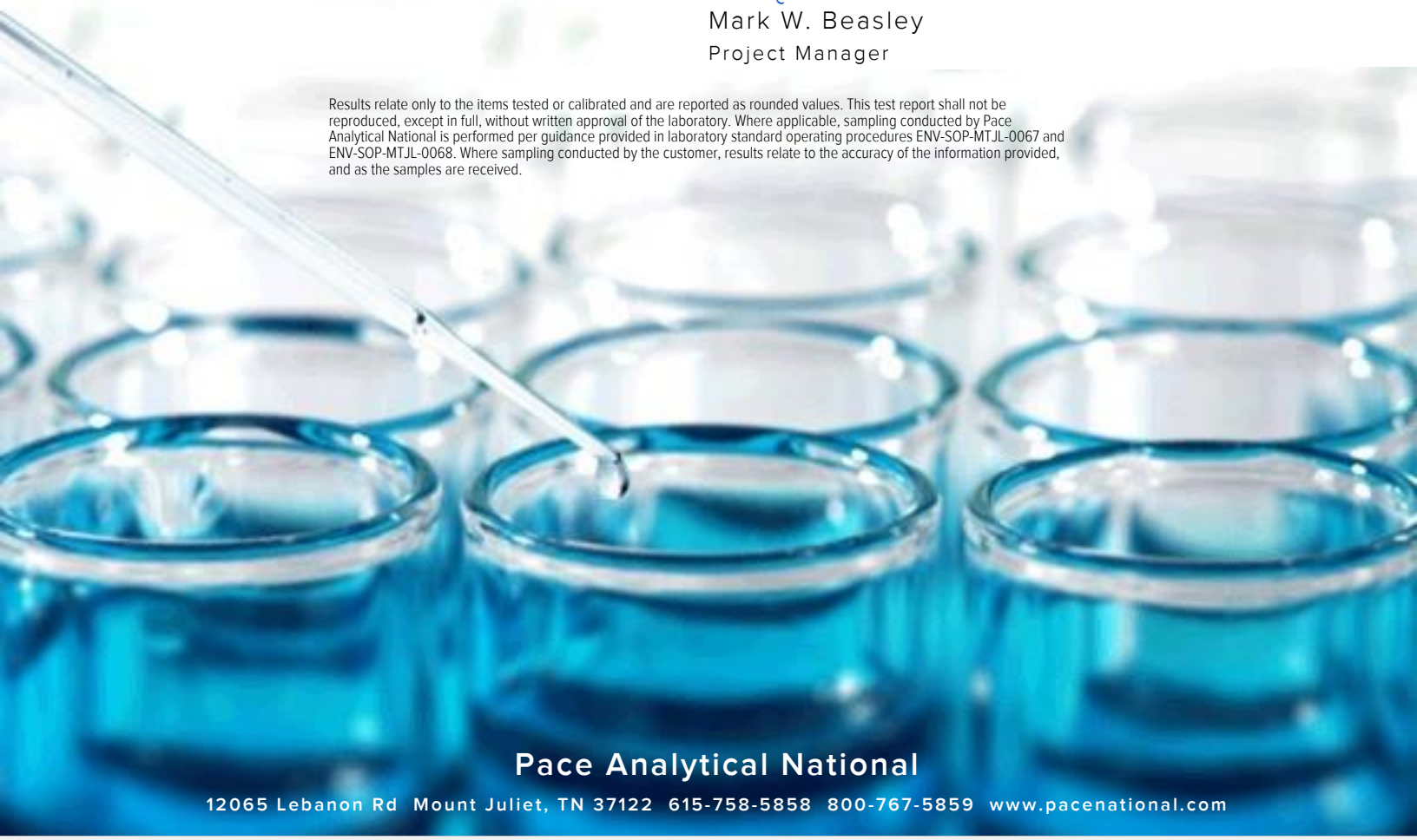
| | |
|---|---|
| Sample Delivery Group: | L1623471 |
| Samples Received: | 06/07/2023 |
| Project Number: | 23051601 |
| Description: | |

Report To: Elizabeth Hurley
5445 Horseshoe Lake Road
Collinsville, IL 62234

Entire Report Reviewed By:

Mark W. Beasley
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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## Sc: Sample Chain of Custody

Collected by | Collected date/time | Received date/time

## 23051601-001 L1623471-01 Non-Potable Water

05/31/23 13:12 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087358 | 1 | 06/30/23 15:34 | 07/06/23 00:10 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087358 | 1 | 06/30/23 15:34 | 07/06/23 00:10 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-002 L1623471-02 Non-Potable Water

06/01/23 11:45 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087358 | 1 | 06/30/23 15:34 | 07/06/23 00:10 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087358 | 1 | 06/30/23 15:34 | 07/06/23 00:10 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-003 L1623471-03 Non-Potable Water

06/01/23 08:54 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-004 L1623471-04 Non-Potable Water

05/31/23 15:10 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-005 L1623471-05 Non-Potable Water

05/31/23 11:37 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-006 L1623471-06 Non-Potable Water

05/31/23 12:04 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 06/01/23 09:40 | 06/07/23 10:30 |

## 23051601-007 L1623471-07 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 06/01/23 10:08 | 06/07/23 10:30 |

## 23051601-008 L1623471-08 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/31/23 14:15 | 06/07/23 10:30 |

## 23051601-009 L1623471-09 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084727 | 1 | 06/26/23 18:37 | 07/03/23 16:14 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/31/23 13:49 | 06/07/23 10:30 |

## 23051601-010 L1623471-10 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/31/23 11:09 | 06/07/23 10:30 |

## 23051601-011 L1623471-11 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| | 05/31/23 14:01 | 06/07/23 10:30 |

## 23051601-012 L1623471-12 Non-Potable Water

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-013 L1623471-13 Non-Potable Water

05/31/23 14:19 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-014 L1623471-14 Non-Potable Water

05/31/23 12:00 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-015 L1623471-15 Non-Potable Water

05/31/23 12:59 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-016 L1623471-16 Non-Potable Water

05/31/23 12:41 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-017 L1623471-17 Non-Potable Water

05/31/23 09:15 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-018 L1623471-18 Non-Potable Water

05/31/23 09:46 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-019 L1623471-19 Non-Potable Water

05/31/23 10:39 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2087644 | 1 | 07/05/23 11:52 | 07/06/23 17:45 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-020 L1623471-20 Non-Potable Water

05/31/23 10:09 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-021 L1623471-21 Non-Potable Water

06/01/23 11:06 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-022 L1623471-22 Non-Potable Water

05/31/23 11:00 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-023 L1623471-23 Non-Potable Water

05/31/23 09:56 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

Collected by | Collected date/time | Received date/time

## 23051601-024 L1623471-24 Non-Potable Water

05/31/23 12:19 | 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

## 23051601-025 L1623471-25 Non-Potable Water

Collected by | Collected date/time 05/31/23 13:37 | Received date/time 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

## 23051601-026 L1623471-26 Non-Potable Water

Collected by | Collected date/time 05/31/23 11:37 | Received date/time 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

## 23051601-027 L1623471-27 Non-Potable Water

Collected by | Collected date/time 06/01/23 10:29 | Received date/time 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

## 23051601-028 L1623471-28 Non-Potable Water

Collected by | Collected date/time 05/31/23 10:27 | Received date/time 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

## 23051601-029 L1623471-29 Non-Potable Water

Collected by | Collected date/time 06/01/23 08:22 | Received date/time 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2084950 | 1 | 06/27/23 11:11 | 07/05/23 16:26 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

## 23051601-030 L1623471-30 Non-Potable Water

Collected by | Collected date/time 06/01/23 08:54 | Received date/time 06/07/23 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Radiochemistry by Method 904/9320 | WG2085377 | 1 | 06/29/23 16:49 | 07/05/23 21:27 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | SNR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG2089290 | 1 | 07/05/23 13:39 | 07/06/23 21:21 | RGT | Mt. Juliet, TN |

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

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

Mark W. Beasley
Project Manager

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.558 | J | 0.405 | 0.724 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *110* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *86.7* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.807 | | 0.483 | 0.806 | 07/06/2023 00:10 | WG2087358 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.249 | J | 0.264 | 0.354 | 07/06/2023 00:10 | WG2087358 |
| *(T) Barium-133* | *99.0* | | | *30.0-143* | *07/06/2023 00:10* | WG2087358 |

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

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.465 | U | 0.256 | 0.480 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *105* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *108* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.203 | U | 0.337 | 0.562 | 07/06/2023 00:10 | WG2087358 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.203 | J | 0.219 | 0.292 | 07/06/2023 00:10 | WG2087358 |
| *(T) Barium-133* | *95.3* | | | *30.0-143* | *07/06/2023 00:10* | WG2087358 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.479 | | 0.220 | 0.387 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *100* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *115* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.598 | | 0.259 | 0.424 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.119 | J | 0.136 | 0.174 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *94.2* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.625 | | 0.216 | 0.375 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *94.3* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *111* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.10 | | 0.525 | 0.459 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.47 | | 0.478 | 0.264 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *92.7* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.104 | U | 0.267 | 0.487 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *104* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *111* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.36 | | 0.569 | 0.510 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 2.26 | | 0.502 | 0.152 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *100* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0670 | U | 0.254 | 0.466 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *101* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *114* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.60 | | 0.530 | 0.529 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.54 | | 0.465 | 0.250 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *93.6* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.232 | U | 0.221 | 0.414 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *100* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *113* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0656 | U | 0.265 | 0.485 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0656 | U | 0.146 | 0.253 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *91.9* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.530 | | 0.260 | 0.459 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *107* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *106* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.597 | | 0.332 | 0.581 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0666 | U | 0.206 | 0.357 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *91.0* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.292 | J | 0.226 | 0.405 | 07/03/2023 16:14 | WG2084727 |
| *(T) Barium* | *107* | | | *30.0-143* | *07/03/2023 16:14* | WG2084727 |
| *(T) Yttrium* | *104* | | | *30.0-136* | *07/03/2023 16:14* | WG2084727 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.745 | | 0.357 | 0.466 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.453 | | 0.276 | 0.230 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *94.4* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.558 | U | 0.372 | 0.686 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *115* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *110* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.06 | | 0.551 | 0.730 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.06 | | 0.407 | 0.250 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *106* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.20 | | 0.314 | 0.532 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *112* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *122* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.44 | | 0.528 | 0.600 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.23 | | 0.424 | 0.277 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *102* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.211 | U | 0.310 | 0.551 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *108* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *99.4* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.781 | | 0.453 | 0.638 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.570 | | 0.331 | 0.322 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *96.4* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | -0.111 | U | 0.311 | 0.561 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *107* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *95.1* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 0.104 | U | 0.364 | 0.633 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.104 | U | 0.189 | 0.294 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *104* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0354 | U | 0.270 | 0.486 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *107* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *117* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.392 | J | 0.347 | 0.519 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.357 | | 0.218 | 0.181 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *92.9* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.846 | | 0.257 | 0.437 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *119* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *106* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 1.70 | | 0.417 | 0.469 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.850 | | 0.328 | 0.169 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *108* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

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

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.646 | | 0.248 | 0.427 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *126* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *110* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.38 | | 0.431 | 0.530 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.738 | | 0.353 | 0.314 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *104* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.202 | U | 0.231 | 0.430 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *122* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *83.5* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.219 | J | 0.332 | 0.537 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.219 | J | 0.239 | 0.321 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *108* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.173 | U | 0.325 | 0.579 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *116* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *91.5* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 0.312 | J | 0.361 | 0.614 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.139 | J | 0.156 | 0.205 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *104* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0723 | U | 0.226 | 0.409 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *119* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *95.0* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.492 | J | 0.357 | 0.495 | 07/06/2023 17:45 | WG2087644 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.420 | | 0.276 | 0.278 | 07/06/2023 17:45 | WG2087644 |
| *(T) Barium-133* | *104* | | | *30.0-143* | *07/06/2023 17:45* | WG2087644 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.246 | J | 0.257 | 0.457 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *108* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *101* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 0.353 | J | 0.309 | 0.529 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.107 | J | 0.171 | 0.266 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *91.8* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.427 | J | 0.278 | 0.487 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *112* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *98.5* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 3.90 | | 0.720 | 0.540 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 3.47 | | 0.664 | 0.234 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *108* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.0999 | U | 0.284 | 0.513 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *115* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *91.2* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.20 | | 0.571 | 0.535 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 2.20 | | 0.495 | 0.152 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *102* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.0655 | U | 0.332 | 0.603 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *126* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *103* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.73 | | 0.622 | 0.662 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.73 | J3 | 0.526 | 0.274 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *84.8* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-228 | 0.446 | | 0.219 | 0.382 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *114* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *102* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| Combined Radium | 0.583 | | 0.307 | 0.502 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result pCi/l | Qualifier | Uncertainty + / - | MDA pCi/l | Analysis Date date / time | Batch |
|---|---|---|---|---|---|---|
| RADIUM-226 | 0.136 | J | 0.215 | 0.325 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *118* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.265 | J | 0.260 | 0.461 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *111* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *111* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.580 | | 0.346 | 0.510 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.315 | | 0.228 | 0.217 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *104* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.878 | | 0.250 | 0.421 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *116* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *103* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 2.43 | | 0.547 | 0.490 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 1.55 | | 0.487 | 0.250 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *113* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.650 | | 0.211 | 0.359 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *116* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *107* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.37 | | 0.396 | 0.453 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.719 | | 0.335 | 0.277 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *113* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0354 | U | 0.286 | 0.512 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *108* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *97.7* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.504 | J | 0.424 | 0.610 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.469 | | 0.313 | 0.332 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *93.5* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.396 | | 0.223 | 0.391 | 07/05/2023 16:26 | WG2084950 |
| *(T) Barium* | *122* | | | *30.0-143* | *07/05/2023 16:26* | WG2084950 |
| *(T) Yttrium* | *102* | | | *30.0-136* | *07/05/2023 16:26* | WG2084950 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.403 | J | 0.278 | 0.504 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.00705 | U | 0.166 | 0.318 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *92.3* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 3.42 | | 0.359 | 0.561 | 07/05/2023 21:27 | WG2085377 |
| *(T) Barium* | *87.3* | | | *30.0-143* | *07/05/2023 21:27* | WG2085377 |
| *(T) Yttrium* | *108* | | | *30.0-136* | *07/05/2023 21:27* | WG2085377 |

## Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 3.60 | | 0.392 | 0.586 | 07/06/2023 21:21 | WG2089290 |

## Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|---|---|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.186 | | 0.157 | 0.168 | 07/06/2023 21:21 | WG2089290 |
| *(T) Barium-133* | *113* | | | *30.0-143* | *07/06/2023 21:21* | WG2089290 |

## Method Blank (MB)

(MB) R3946607-1 07/03/23 16:14

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-228 | 0.106 | U | 0.159 | 0.289 |
| *(T) Barium* | *119* | | *119* | |
| *(T) Yttrium* | *98.9* | | *98.9* | |

## L1623471-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-01 07/03/23 16:14 • (DUP) R3946607-5 07/03/23 16:14

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-228 | 0.558 | 0.405 | 0.724 | -0.454 | 0.392 | 0.724 | 1 | 200 | 1.80 | U | 20 | 3 |
| *(T) Barium* | *110* | | | *110* | *110* | | | | | | | |
| *(T) Yttrium* | *86.7* | | | *111* | *111* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3946607-2 07/03/23 16:14

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-228 | 5.00 | 5.14 | 103 | 80.0-120 | |
| *(T) Barium* | | | *110* | | |
| *(T) Yttrium* | | | *112* | | |

## L1622211-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1622211-01 07/03/23 16:14 • (MS) R3946607-3 07/03/23 16:14 • (MSD) R3946607-4 07/03/23 16:14

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-228 | 10.0 | 0.191 | 9.44 | 9.96 | 92.5 | 97.7 | 1 | 70.0-130 | | | 5.32 | | 20 |
| *(T) Barium* | | *111* | | | *116* | *110* | | | | | | | |
| *(T) Yttrium* | | *103* | | | *110* | *111* | | | | | | | |

## Method Blank (MB)

(MB) R3946627-1 07/05/23 16:26

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-228 | 0.219 | J | 0.164 | 0.291 |
| *(T) Barium* | *131* | | *131* | |
| *(T) Yttrium* | *96.4* | | *96.4* | |

## L1623471-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-10 07/05/23 16:26 • (DUP) R3946627-5 07/05/23 16:26

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-228 | -0.558 | 0.372 | 0.686 | -0.377 | 0.373 | 0.686 | 1 | 0.000 | 0.343 | U | 20 | 3 |
| *(T) Barium* | *115* | | | *117* | *117* | | | | | | | |
| *(T) Yttrium* | *110* | | | *105* | *105* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3946627-2 07/05/23 16:26

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-228 | 5.00 | 5.40 | 108 | 80.0-120 | |
| *(T) Barium* | | | *122* | | |
| *(T) Yttrium* | | | *98.3* | | |

## L1623471-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623471-23 07/05/23 16:26 • (MS) R3946627-3 07/05/23 16:26 • (MSD) R3946627-4 07/05/23 16:26

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-228 | 16.7 | -0.0655 | 19.0 | 17.9 | 114 | 107 | 1 | 70.0-130 | | | 6.23 | | 20 |
| *(T) Barium* | | *126* | | | *123* | *122* | | | | | | | |
| *(T) Yttrium* | | *103* | | | *102* | *116* | | | | | | | |

## Method Blank (MB)

(MB) R3946996-1 07/05/23 21:27

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-228 | 0.202 | J | 0.186 | 0.335 |
| *(T) Barium* | *84.2* | | *84.2* | |
| *(T) Yttrium* | *106* | | *106* | |

## L1623496-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1623496-03 07/05/23 21:27 • (DUP) R3946996-5 07/05/23 21:27

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-228 | 1.09 | 0.320 | 0.550 | 1.05 | 0.420 | 0.550 | 1 | 4.30 | 0.0871 | | 20 | 3 |
| *(T) Barium* | *77.6* | | | *93.1* | *93.1* | | | | | | | |
| *(T) Yttrium* | *108* | | | *107* | *107* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3946996-2 07/05/23 21:27

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-228 | 5.00 | 5.08 | 102 | 80.0-120 | |
| *(T) Barium* | | | *92.3* | | |
| *(T) Yttrium* | | | *117* | | |

## L1623493-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623493-01 07/05/23 21:27 • (MS) R3946996-3 07/05/23 21:27 • (MSD) R3946996-4 07/05/23 21:27

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-228 | 10.0 | 0.153 | 10.4 | 11.1 | 102 | 109 | 1 | 70.0-130 | | | 6.34 | | 20 |
| *(T) Barium* | | *75.2* | | | *90.8* | *87.9* | | | | | | | |
| *(T) Yttrium* | | *109* | | | *109* | *110* | | | | | | | |

## Method Blank (MB)

(MB) R3945585-5 07/06/23 00:18

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | 0.00365 | U | 0.0189 | 0.0365 |
| *(T) Barium-133* | *96.3* | | *96.3* | |

## L1623344-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1623344-01 07/06/23 00:18 • (DUP) R3945585-4 07/06/23 00:10

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-226 | 7.21 | 1.02 | 0.218 | 6.41 | 0.904 | 0.218 | 1 | 11.7 | 0.583 | | 20 | 3 |
| *(T) Barium-133* | *99.5* | | | *97.6* | *97.6* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3945585-1 07/06/23 00:10

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.01 | 5.26 | 105 | 80.0-120 | |
| *(T) Barium-133* | | | *99.6* | | |

## L1623471-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623471-01 07/06/23 00:10 • (MS) R3945585-2 07/06/23 00:10 • (MSD) R3945585-3 07/06/23 00:10

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-226 | 20.0 | 0.249 | 18.6 | 19.0 | 91.8 | 93.8 | 1 | 75.0-125 | | | 2.13 | | 20 |
| *(T) Barium-133* | | *99.0* | | | *86.4* | *87.8* | | | | | | | |

## Method Blank (MB)

(MB) R3946754-1 07/06/23 17:45

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | 0.00425 | U | 0.0395 | 0.0803 |
| *(T) Barium-133* | *92.2* | | *92.2* | |

## L1628140-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1628140-23 07/06/23 17:45 • (DUP) R3946754-5 07/06/23 17:45

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-226 | 0.0812 | 0.183 | 0.298 | -0.0667 | 0.0975 | 0.298 | 1 | 200 | 0.714 | U | 20 | 3 |
| *(T) Barium-133* | *105* | | | *94.2* | *94.2* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3946754-2 07/06/23 17:45

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.01 | 4.01 | 80.0 | 80.0-120 | |
| *(T) Barium-133* | | | *91.2* | | |

## L1623471-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623471-05 07/06/23 17:45 • (MS) R3946754-6 07/07/23 23:34 • (MSD) R3946754-4 07/06/23 17:45

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-226 | 20.0 | 2.26 | 17.4 | 19.1 | 75.8 | 84.4 | 1 | 75.0-125 | | | 9.41 | | 20 |
| *(T) Barium-133* | | *100* | | | *90.1* | *86.9* | | | | | | | |

## Method Blank (MB)

(MB) R3946774-1 07/06/23 21:21

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|---|---|---|---|---|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | -0.00437 | U | 0.0542 | 0.105 |
| *(T) Barium-133* | *77.4* | | *77.4* | |

## L1623471-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-23 07/06/23 21:21 • (DUP) R3946774-5 07/06/23 21:21

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-226 | 1.73 | 0.526 | 0.274 | 0.0499 | 0.0948 | 0.274 | 1 | 189 | 3.14 | J3 U | 20 | 3 |
| *(T) Barium-133* | *84.8* | | | *99.6* | *99.6* | | | | | | | |

## L1623471-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1623471-23 07/06/23 21:21 • (DUP) R3946774-6 07/07/23 23:34

| Analyte | Original Result | Original Uncertainty | Original MDA | DUP Result | DUP Uncertainty | DUP MDA | Dilution | DUP RPD | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | + / - | pCi/l | pCi/l | + / - | pCi/l | | % | | | % | |
| Radium-226 | 1.73 | 0.526 | 0.274 | 0.0460 | 0.165 | 0.274 | 1 | 190 | 3.05 | J3 U | 20 | 3 |
| *(T) Barium-133* | *84.8* | | | *99.6* | *99.6* | | | | | | | |

## Laboratory Control Sample (LCS)

(LCS) R3946774-2 07/06/23 21:21

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.01 | 4.08 | 81.5 | 80.0-120 | |
| *(T) Barium-133* | | | *88.5* | | |

## L1623471-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1623471-28 07/06/23 21:21 • (MS) R3946774-3 07/06/23 21:21 • (MSD) R3946774-4 07/06/23 21:21

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | MS RER | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | pCi/l | pCi/l | pCi/l | pCi/l | % | % | | % | | | % | | % |
| Radium-226 | 20.0 | 0.469 | 16.8 | 17.9 | 81.6 | 87.0 | 1 | 75.0-125 | | | 6.23 | | 20 |
| *(T) Barium-133* | | *93.5* | | | *84.3* | *89.3* | | | | | | | |

## 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. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| U | Below Detectable Limits: Indicates that the analyte was not detected. |

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [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.

A171

# TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: | Sampler: Tracy Carroll/TEKLAB | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23051601

Contact: Elizabeth Hurley | Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 34507 | Phone: (618) 344-1004

L623471

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 |
|---|---|---|---|---|---|
| -01 | 23051601-001 | 5/31/23 1312 | HNO3 | Groundwater | ☑ |
| -02 | 23051601-002 | 6/1/23 1145 | HNO3 | Groundwater | ☑ |
| -03 | 23051601-003 | 6/1/23 0854 | HNO3 | Groundwater | ☑ |
| -04 | 23051601-004 | 5/31/23 1510 | HNO3 | Groundwater | ☑ |
| -05 | 23051601-005 | 5/31/23 1137 | HNO3 | Groundwater | ☑ |
| -06 | 23051601-006 | 5/31/23 1204 | HNO3 | Groundwater | ☑ |
| -07 | 23051601-007 | 6/1/23 0940 | HNO3 | Groundwater | ☑ |
| -08 | 23051601-008 | 6/1/23 1008 | HNO3 | Groundwater | ☑ |
| -09 | 23051601-009 | 5/31/23 1415 | HNO3 | Groundwater | ☑ |
| -10 | 23051601-010 | 5/31/23 1359 | HNO3 | Groundwater | ☑ |
| -11 | 23051601-011 | 5/31/23 1109 | HNO3 | Groundwater | ☑ |

| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| [signature] | 6/5/23 | Hailey Robertson | 6/7/23 1030 |

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

PH-10BDH4321 TRC-2144141
CR6-220221V

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**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: | Sampler: Tracy Carroll/TEKLAB | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an IL site.
Batch QC is required for all analyses requested. EDD requested..

Project# 23051601

Contact: Elizabeth Hurley | Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 34507 | Phone: (618) 344-1004

L1623471

PLEASE NOTE:

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| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 |
|---|---|---|---|---|---|
| -12 | 23051601-012 | 5/31/23 1401 | HNO3 | Groundwater | ☑ |
| -13 | 23051601-013 | 5/31/23 1419 | HNO3 | Groundwater | ☑ |
| -14 | 23051601-014 | 5/31/23 1200 | HNO3 | Groundwater | ☑ |
| -15 | 23051601-015 | 5/31/23 1259 | HNO3 | Groundwater | ☑ |
| -16 | 23051601-016 | 5/31/23 1241 | HNO3 | Groundwater | ☑ |
| -17 | 23051601-017 | 5/31/23 0915 | HNO3 | Groundwater | ☑ |
| -18 | 23051601-018 | 5/31/23 0946 | HNO3 | Groundwater | ☑ |
| -19 | 23051601-019 | 5/31/23 1039 | HNO3 | Groundwater | ☑ |
| -20 | 23051601-020 | 5/31/23 1009 | HNO3 | Groundwater | ☑ |
| -21 | 23051601-021 | 6/1/23 1106 | HNO3 | Groundwater | ☑ |
| -22 | 23051601-022 | 5/31/23 1100 | HNO3 | Groundwater | ☑ |

| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| DMP | 6/5/23 | Hadley Robertson | 6/7/23 1030 |

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SubCocRevA
3/2/2016

# TEKLAB, INC. Chain of Custody

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Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

**Teklab Inc**
**5445 Horseshoe Lake Road**
**Collinsville, IL 62234**

Cooler Temp: | Sampler: Tracy Carroll/TEKLAB | QC Level: 3

Comments: **Please Issue reports and invoices via email only**
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Project# 23051601

Contact: Elizabeth Hurley | Email: EHurley@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 34507 | Phone: (618) 344-1004

L1623471

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Any changes to analysis/methods must be approved by Teklab, Inc.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -23 | 23051601-023 | 5/31/23 0956 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -24 | 23051601-024 | 5/31/23 1219 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -25 | 23051601-025 | 5/31/23 1337 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -26 | 23051601-026 | 5/31/23 1137 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -27 | 23051601-027 | 6/1/23 1029 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -28 | 23051601-028 | 5/31/23 1027 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -29 | 23051601-029 | 6/1/23 0822 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| -30 | 23051601-030 | 6/1/23 0854 | HNO3 | Groundwater | ✔ | | | | | | | | | | | | |
| | | | HNO3 | Groundwater | | | | | | | | | | | | | |
| | | | HNO3 | Groundwater | | | | | | | | | | | | | |
| | | | HNO3 | Groundwater | | | | | | | | | | | | | |

| *Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| [signature] | 6/5/23 | Hailey Robertson | 6/7/23 1030 |

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 | | |

es not provide client/sampler information without proper authorization. and proprietary rights, d by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SubCocRevA
3/2/2016

L1623471

| Tracking Numbers | NS A7. Temperature |
|---|---|
| 6319 3616 3004 | 22.2±0=22.2 |
| 6319 3616 3705 | 21.0±0=21.0 |
| 6319 3616 3053 | 22.7±0=22.7 |
| | |
| | |
| | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | JR,JC/TAC,BG | | hmm | hhmm | | | | | | |
| WO Sample | Well ID | Date | Time | Time (adj) | DTB (ft) | DTW (ft) | MP Elev (ft) | GW Elev (ft) | Well Condition | Sampling Device |
| 001A | HEN02 | 06/01/2023 | 1102 | 1102 | | 44.96 | | | Good | Bladder Pump |
| 002A | HEN03R | 05/31/2023 | 1312 | 1312 | | 35.04 | | | Good | Bladder Pump |
| 003A | HEN05R | 05/31/2023 | 1517 | 1517 | | 41.35 | | | Good | Bladder Pump |
| 004A | HEN05DR | 05/31/2023 | 1458 | 1458 | | 41.32 | | | Good | Bladder Pump |
| 005A | HEN07 | 06/01/2023 | 1145 | 1145 | | 67.8 | | | Good | Bladder Pump |
| 006A | HEN08 | 06/01/2023 | 854 | 0854 | | 53.84 | | | Good | Bladder Pump |
| 007A | HEN08D | 05/31/2023 | 1510 | 1510 | | 54.12 | | | Good | Bladder Pump |
| 008A | HEN10 | 05/31/2023 | 922 | 0922 | | 50.78 | | | Good | Bladder Pump |
| 009A | HEN12 | 05/31/2023 | 1137 | 1137 | | 51.21 | | | Good | Bladder Pump |
| 010A | HEN13 | 05/31/2023 | 1204 | 1204 | | 51.21 | | | Good | Bladder Pump |
| 011A | HEN16 | 06/01/2023 | 940 | 0940 | | 54.57 | | | Good | Bladder Pump |
| 012A | HEN17 | 06/01/2023 | 1008 | 1008 | | 55.96 | | | Good | Bladder Pump |
| 013A | HEN18S | 05/31/2023 | 1415 | 1415 | | 40.86 | | | Good | Bladder Pump |
| 014A | HEN18D | 05/31/2023 | 1349 | 1349 | | 40.91 | | | Good | Bladder Pump |
| 015A | HEN21R | 05/31/2023 | 1109 | 1109 | | 5.92 | | | Good | Bladder Pump |
| 016A | HEN22 | 05/31/2023 | 1401 | 1401 | | 18.45 | | | Good | Bladder Pump |
| 017A | HEN22D | 05/31/2023 | 1419 | 1419 | | 19.1 | | | Good | Bladder Pump |
| 018A | HEN23 | 05/31/2023 | 1200 | 1200 | | 16.72 | | | Good | Bladder Pump |
| 019A | HEN25 | 05/31/2023 | 1259 | 1259 | | 15.94 | | | Good | Bladder Pump |
| 020A | HEN26 | 05/31/2023 | 1241 | 1241 | | 16 | | | Good | Bladder Pump |
| 021A | HEN27 | 05/31/2023 | 915 | 0915 | | 4.14 | | | Good | Bladder Pump |
| 022A | HEN30 | 05/30/2023 | 1509 | 1509 | | 6.62 | | | | |
| 023A | HEN31 | 05/30/2023 | 1509 | 1509 | | 6.56 | | | | |
| 024A | HEN32 | 05/31/2023 | 946 | 0946 | | 5.22 | | | Good | Bladder Pump |
| 025A | HEN33 | 05/30/2023 | 1515 | 1515 | | 4.03 | | | | |
| 026A | HEN34 | 05/31/2023 | 1039 | 1039 | | 8.66 | | | Good | Bladder Pump |
| 027A | HEN35 | 05/31/2023 | 1009 | 1009 | | 8.3 | | | Good | Bladder Pump |
| 028A | HEN36 | 05/30/2023 | 1528 | 1528 | | 15.32 | | | | |
| 029A | HEN40S | 06/01/2023 | 1034 | 1034 | | 40.54 | | | Good | Bladder Pump |
| 030A | HEN45S | 06/01/2023 | 1106 | 1106 | | 20.42 | | | Good | Bladder Pump |
| 031A | HEN46 | 05/31/2023 | 1100 | 1100 | | 51.4 | | | Good | Bladder Pump |
| 032A | HEN47 | 05/31/2023 | 956 | 0956 | | 55.66 | | | Good | Bladder Pump |
| 033A | HEN49 | 05/31/2023 | 1219 | 1219 | | 21.54 | | | Good | Bladder Pump |
| 034A | HEN50 | 05/31/2023 | 1337 | 1337 | | 18.25 | | | Good | Bladder Pump |
| 035A | HEN51 | 05/31/2023 | 1137 | 1137 | | 18.5 | | | Good | Bladder Pump |
| 036A | HEN52 | 06/01/2023 | 1029 | 1029 | | 53.89 | | | Good | Bladder Pump |
| 037A | HEN54 | 05/31/2023 | 1027 | 1027 | | 53.23 | | | Good | Bladder Pump |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | JR,JC/TAC,BG | | hmm | hhmm | | | | | | |
| WO Sample | Well ID | Date | Time | Time (adj) | DTB (ft) | DTW (ft) | MP Elev (ft) | GW Elev (ft) | Well Condition | Sampling Device |
| 038A | HEN55 | 05/30/2023 | 1438 | 1438 | | 50.55 | | | | |
| 039A | HENXPW01 | 06/01/2023 | 858 | 0858 | | 10.25 | | | Good | Peristaltic Pump |
| 040A | HENXPW02 | 06/01/2023 | 925 | 0925 | | 15.37 | | | Good | Peristaltic Pump |
| 041A | HENXPW03 | 06/01/2023 | 952 | 0952 | | 6.41 | | | Good | Peristaltic Pump |
| 042A | HENXSG01 | 05/30/2023 | 1403 | 1403 | | 7.17 | | | | |
| 043A | HENYSGILRIVER | 05/30/2023 | 1321 | 1321 | | 440.5 | | | | |
| 044A | FIELD Blank | 06/01/2023 | 822 | 0822 | | | | | | |
| 045A | HEN08 Dup | 06/01/2023 | 854 | 0854 | | 53.84 | | | Good | Bladder Pump |
| | | | | 0 | | | | | | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | JR,JC/TAC,BG |

| WO Sample | Well ID | Samling Method | Field Filtered | Appearance | Odor | Color | Turbidity (visible) | Ferrous Iron | Transducer SN |
|---|---|---|---|---|---|---|---|---|---|
| 001A | HEN02 | Low Flow | Yes | Clear | None | None | None | 3.598 | NA |
| 002A | HEN03R | Low Flow | Yes | Clear | None | None | None | 3.23 | 21615140 |
| 003A | HEN05R | Low Flow | Yes | Clear | None | None | None | 3.317 | NA |
| 004A | HEN05DR | Low Flow | Yes | Clear | None | None | None | 3.839 | NA |
| 005A | HEN07 | Low Flow | Yes | Clear | None | None | None | 0.511 | 21615139 |
| 006A | HEN08 | Low Flow | Yes | Clear | None | None | None | 1.751 | 21615138 |
| 007A | HEN08D | Low Flow | Yes | Clear | None | None | None | 1.526 | 21615598 |
| 008A | HEN10 | Low Flow | Yes | Clear | None | None | None | 3.38 | NA |
| 009A | HEN12 | Low Flow | Yes | Clear | None | None | None | 3.602 | 21615520 |
| 010A | HEN13 | Low Flow | Yes | Clear | None | None | None | 3.597 | 21615515 |
| 011A | HEN16 | Low Flow | Yes | Clear | None | None | None | 1.094 | 21615137 |
| 012A | HEN17 | Low Flow | Yes | Clear | None | None | None | 0.887 | 21615500 |
| 013A | HEN18S | Low Flow | Yes | Clear | None | None | None | 3.813 | 21615482 |
| 014A | HEN18D | Low Flow | Yes | Clear | None | None | Slight | 4.136 | 21615609 |
| 015A | HEN21R | Low Flow | Yes | Clear | Moder | None | None | 6.598 | 21615613 |
| 016A | HEN22 | Low Flow | Yes | Clear | None | None | None | 0.608 | 21615497 |
| 017A | HEN22D | Low Flow | Yes | Clear | Slight | None | None | 2.585 | 21564134 |
| 018A | HEN23 | Low Flow | Yes | Clear | Moder | None | None | 1.207 | 21615600 |
| 019A | HEN25 | Low Flow | Yes | Clear | None | None | None | 1.25 | |
| 020A | HEN26 | Low Flow | Yes | Clear | Slight | None | None | 0.884 | |
| 021A | HEN27 | Low Flow | Yes | Clear | Slight | None | None | over | 21615576 |
| 022A | HEN30 | | | | | | | | |
| 023A | HEN31 | | | | | | | | |
| 024A | HEN32 | Low Flow | Yes | Clear | Slight | None | None | 2.916 | 21615487 |
| 025A | HEN33 | | | | | | | | |
| 026A | HEN34 | Low Flow | Yes | Clear | None | None | None | over | 21615509 |
| 027A | HEN35 | Low Flow | Yes | Clear | None | None | None | 4.586 | 21615510 |
| 028A | HEN36 | | | | | | | | |
| 029A | HEN40S | Low Flow | Yes | Clear | None | None | None | 1.052 | |
| 030A | HEN45S | Low Flow | Yes | Clear | None | None | None | 1.017 | |
| 031A | HEN46 | Low Flow | Yes | Clear | None | None | None | 3.258 | 21615491 |
| 032A | HEN47 | Low Flow | Yes | Clear | None | None | None | 3.336 | 21615505 |
| 033A | HEN49 | Low Flow | Yes | Clear | None | None | None | 0.72 | 21615490 |
| 034A | HEN50 | Low Flow | Yes | Clear | None | None | None | 0.977 | 21615489 |
| 035A | HEN51 | Low Flow | Yes | Clear | Slight | None | None | over | 21615608 |
| 036A | HEN52 | Low Flow | Yes | Clear | None | None | None | 3.4 | 21615145 |
| 037A | HEN54 | Low Flow | Yes | Clear | None | None | None | 3.597 | 21615143 |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | |
| Technician | JR,JC/TAC,BG | | | | | | | | |
| WO Sample | Well ID | Samling Method | Field Filtered | Appearance | Odor | Color | Turbidity (visible) | Ferrous Iron | Transducer SN |
| 038A | HEN55 | | | | | | | | 21615612 |
| 039A | HENXPW01 | Low Flow | Yes | Clear | None | None | Slight | 3.164 | NA |
| 040A | HENXPW02 | Low Flow | Yes | Clear | None | None | None | 3.193 | NA |
| 041A | HENXPW03 | Low Flow | Yes | Clear | None | None | None | 3.823 | NA |
| 042A | HENXSG01 | | | | | | | | |
| 043A | HENYSGILRIVER | | | | | | | | |
| 044A | FIELD Blank | | | | | | | | |
| 045A | HEN08 Dup | Low Flow | Yes | Clear | None | None | None | 1.751 | 21615138 |
| | | | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | |
|---|---|---|
| LIMS Workorder | 23051600 | |
| Technician | JR,JC/TAC,BG | |
| WO Sample | Well ID | Trans Reads |
| 001A | HEN02 | |
| 002A | HEN03R | 447.0424 |
| 003A | HEN05R | |
| 004A | HEN05DR | |
| 005A | HEN07 | 137.3366 |
| 006A | HEN08 | 136.4609 |
| 007A | HEN08D | 448.15 |
| 008A | HEN10 | NA |
| 009A | HEN12 | 447.3286 |
| 010A | HEN13 | 447.4906 |
| 011A | HEN16 | 136.388 |
| 012A | HEN17 | 137.7737 |
| 013A | HEN18S | 447.0615 |
| 014A | HEN18D | 447.3612 |
| 015A | HEN21R | 447.75 |
| 016A | HEN22 | 447.26 |
| 017A | HEN22D | 447.58 |
| 018A | HEN23 | 447.9 |
| 019A | HEN25 | |
| 020A | HEN26 | |
| 021A | HEN27 | 447.76 |
| 022A | HEN30 | |
| 023A | HEN31 | |
| 024A | HEN32 | 447.65 |
| 025A | HEN33 | |
| 026A | HEN34 | 446.53 |
| 027A | HEN35 | 447.75 |
| 028A | HEN36 | |
| 029A | HEN40S | |
| 030A | HEN45S | |
| 031A | HEN46 | 447.5016 |
| 032A | HEN47 | 447.2565 |
| 033A | HEN49 | 447.82 |
| 034A | HEN50 | 447.15 |
| 035A | HEN51 | 447.8 |
| 036A | HEN52 | 447.4773 |
| 037A | HEN54 | 447.2757 |

| Site Sampling Event | HEN-Q2-2023 | |
|---|---|---|
| LIMS Workorder | 23051600 | |
| Technician | JR,JC/TAC,BG | |
| WO Sample | Well ID | Trans Reads |
| 038A | HEN55 | |
| 039A | HENXPW01 | |
| 040A | HENXPW02 | |
| 041A | HENXPW03 | |
| 042A | HENXSG01 | |
| 043A | HENYSGILRIVER | |
| 044A | FIELD Blank | |
| 045A | HEN08 Dup | 136.4609 |
| | | |

| DATE | TIME | SITE | DATA ID | Barometer | Temp (°C) | Cond (µS/c | Sp Cond (µS/cm | Sal (psu) | nLFCond (µ | TDS (mg/L) | Resistivity ( | Sigma-T (s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 9:16:16 AM | Hennepin | HEN10 | 747.6 | 17.5 | 727.7 | 848.9 | 0.42 | 859.4 | 552 | 1374.2 | -1 |
| 5/31/2023 | 9:19:16 AM | Hennepin | HEN10 | 747.5 | 17.5 | 724.5 | 846.3 | 0.42 | 856.9 | 550 | 1380.3 | -1 |
| 5/31/2023 | 9:22:16 AM | Hennepin | HEN10 | 747.5 | 17.5 | 724.3 | 845.7 | 0.42 | 856.2 | 550 | 1380.6 | -1 |
| 5/31/2023 | 9:50:05 AM | Hennepin | HEN47 | 747.6 | 18.1 | 754.3 | 868.4 | 0.43 | 878.4 | 564 | 1325.8 | -1.1 |
| 5/31/2023 | 9:53:05 AM | Hennepin | HEN47 | 747.5 | 18.1 | 753.3 | 867.3 | 0.43 | 877.4 | 564 | 1327.5 | -1.1 |
| 5/31/2023 | 9:56:05 AM | Hennepin | HEN47 | 747.6 | 18.1 | 754 | 868.3 | 0.43 | 878.4 | 564 | 1326.3 | -1.1 |
| 5/31/2023 | 10:21:41 AM | Hennepin | HEN54 | 747.6 | 17.2 | 728.3 | 855.8 | 0.42 | 866.7 | 556 | 1373 | -0.9 |
| 5/31/2023 | 10:24:41 AM | Hennepin | HEN54 | 747.5 | 17.2 | 704.7 | 828.3 | 0.41 | 839 | 538 | 1419.1 | -0.9 |
| 5/31/2023 | 10:27:41 AM | Hennepin | HEN54 | 747.6 | 17.1 | 703.5 | 827.9 | 0.41 | 838.5 | 538 | 1421.4 | -0.9 |
| 5/31/2023 | 10:54:26 AM | Hennepin | HEN46 | 747.6 | 16.4 | 683.4 | 818.5 | 0.4 | 829.8 | 532 | 1463.2 | -0.8 |
| 5/31/2023 | 10:57:26 AM | Hennepin | HEN46 | 747.6 | 16.2 | 679.3 | 815.9 | 0.4 | 827.3 | 530 | 1472.1 | -0.8 |
| 5/31/2023 | 11:00:26 AM | Hennepin | HEN46 | 747.6 | 16.1 | 677.1 | 815.3 | 0.4 | 826.8 | 530 | 1476.9 | -0.8 |
| 5/31/2023 | 11:31:34 AM | Hennepin | HEN12 | 747.6 | 16.3 | 689.5 | 827.5 | 0.41 | 839 | 538 | 1450.3 | -0.8 |
| 5/31/2023 | 11:34:34 AM | Hennepin | HEN12 | 747.6 | 15.7 | 672.3 | 816.9 | 0.4 | 828.7 | 531 | 1487.5 | -0.7 |
| 5/31/2023 | 11:37:34 AM | Hennepin | HEN12 | 747.6 | 15.7 | 672 | 817.4 | 0.4 | 829.3 | 531 | 1488.1 | -0.7 |
| 5/31/2023 | 11:58:05 AM | Hennepin | HEN13 | 747.3 | 16.1 | 676.8 | 815.2 | 0.4 | 826.7 | 530 | 1477.6 | -0.8 |
| 5/31/2023 | 12:01:05 PM | Hennepin | HEN13 | 747.3 | 16.2 | 677.8 | 814.4 | 0.4 | 825.7 | 529 | 1475.3 | -0.8 |
| 5/31/2023 | 12:04:05 PM | Hennepin | HEN13 | 747.1 | 16.2 | 677.5 | 813.7 | 0.4 | 825.1 | 529 | 1475.9 | -0.8 |
| 5/31/2023 | 1:06:38 PM | Hennepin | HEN03R | 747.2 | 18.5 | 813.8 | 928.9 | 0.46 | 939.2 | 604 | 1228.7 | -1.1 |
| 5/31/2023 | 1:09:38 PM | Hennepin | HEN03R | 747.3 | 18.4 | 811.2 | 927.4 | 0.46 | 937.7 | 603 | 1232.7 | -1.1 |
| 5/31/2023 | 1:12:38 PM | Hennepin | HEN03R | 747.2 | 18.4 | 809.8 | 926.7 | 0.46 | 937.1 | 602 | 1234.8 | -1.1 |
| 5/31/2023 | 1:43:10 PM | Hennepin | HEN18D | 746.9 | 17.5 | 789.8 | 920.9 | 0.46 | 932.3 | 599 | 1266.1 | -1 |
| 5/31/2023 | 1:46:10 PM | Hennepin | HEN18D | 747 | 17.5 | 790.9 | 923.1 | 0.46 | 934.6 | 600 | 1264.4 | -1 |
| 5/31/2023 | 1:49:10 PM | Hennepin | HEN18D | 746.8 | 17.5 | 789.6 | 921.7 | 0.46 | 933.1 | 599 | 1266.5 | -1 |
| 5/31/2023 | 2:09:37 PM | Hennepin | HEN18S | 746.7 | 17.2 | 782.4 | 919.8 | 0.46 | 931.6 | 598 | 1278.2 | -0.9 |
| 5/31/2023 | 2:12:37 PM | Hennepin | HEN18S | 746.7 | 17.2 | 783.5 | 920.3 | 0.46 | 932.1 | 598 | 1276.4 | -0.9 |
| 5/31/2023 | 2:15:37 PM | Hennepin | HEN18S | 746.8 | 17.2 | 783.4 | 921 | 0.46 | 932.8 | 599 | 1276.6 | -0.9 |
| 5/31/2023 | 2:52:51 PM | Hennepin | HEN05DR | 746.8 | 17.3 | 735.2 | 861.5 | 0.43 | 872.4 | 560 | 1360.2 | -0.9 |
| 5/31/2023 | 2:55:50 PM | Hennepin | HEN05DR | 747 | 17.4 | 739.7 | 864.8 | 0.43 | 875.6 | 562 | 1352 | -1 |
| 5/31/2023 | 2:58:50 PM | Hennepin | HEN05DR | 747 | 17.5 | 739.8 | 864.3 | 0.43 | 875 | 562 | 1351.7 | -1 |
| 5/31/2023 | 3:11:19 PM | Hennepin | HEN05R | 747.2 | 17.1 | 730 | 858.7 | 0.42 | 869.8 | 558 | 1370 | -0.9 |
| 5/31/2023 | 3:14:19 PM | Hennepin | HEN05R | 747.2 | 17.2 | 729.5 | 858 | 0.42 | 869 | 558 | 1370.8 | -0.9 |
| 5/31/2023 | 3:17:19 PM | Hennepin | HEN05R | 747.2 | 17.1 | 728.2 | 857.7 | 0.42 | 868.7 | 557 | 1373.3 | -0.9 |
| 6/1/2023 | 8:49:06 AM | Hennepin | HENXPW01 | 748.7 | 16.7 | 934.1 | 1109.1 | 0.55 | 1123.9 | 721 | 1070.5 | -0.8 |

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 6/2/2023 16:55

| DATE | TIME | SITE | DATA ID | Barometer | Temp (°C) | Cond (µS/c | Sp Cond (µS/cm | Sal (psu) | nLFCond (µ | TDS (mg/L) | Resistivity ( | Sigma-T (s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/1/2023 | 8:52:06 AM | Hennepin | HENXPW01 | 748.7 | 16.7 | 933.5 | 1109.8 | 0.55 | 1124.6 | 721 | 1071.3 | -0.7 |
| 6/1/2023 | 8:55:06 AM | Hennepin | HENXPW01 | 748.8 | 16.6 | 935.6 | 1114.3 | 0.56 | 1129.3 | 724 | 1068.8 | -0.7 |
| 6/1/2023 | 8:58:06 AM | Hennepin | HENXPW01 | 748.7 | 16.5 | 935.8 | 1116.4 | 0.56 | 1131.6 | 726 | 1068.6 | -0.7 |
| 6/1/2023 | 9:19:17 AM | Hennepin | HENXPW02 | 748.8 | 16.6 | 3096.9 | 3687.5 | 1.95 | 3737.2 | 2397 | 322.9 | 0.3 |
| 6/1/2023 | 9:22:17 AM | Hennepin | HENXPW02 | 748.7 | 16.3 | 3075.7 | 3686.2 | 1.95 | 3737.1 | 2396 | 325.1 | 0.4 |
| 6/1/2023 | 9:25:17 AM | Hennepin | HENXPW02 | 748.8 | 16.3 | 3074.1 | 3688 | 1.96 | 3739.1 | 2397 | 325.3 | 0.4 |
| 6/1/2023 | 9:46:56 AM | Hennepin | HENXPW03 | 749.1 | 15.3 | 1283 | 1574.7 | 0.8 | 1598.2 | 1024 | 779.4 | -0.3 |
| 6/1/2023 | 9:49:56 AM | Hennepin | HENXPW03 | 749 | 15.4 | 1277.1 | 1564.2 | 0.79 | 1587.3 | 1017 | 783 | -0.3 |
| 6/1/2023 | 9:52:56 AM | Hennepin | HENXPW03 | 749 | 15.5 | 1286.8 | 1573.1 | 0.8 | 1596.3 | 1023 | 777.2 | -0.3 |
| 6/1/2023 | 10:23:49 AM | Hennepin | HEN52 | 748.8 | 18.1 | 758.7 | 874.4 | 0.43 | 884.6 | 568 | 1318 | -1.1 |
| 6/1/2023 | 10:26:49 AM | Hennepin | HEN52 | 748.8 | 17.4 | 700.9 | 820.1 | 0.4 | 830.4 | 533 | 1426.7 | -1 |
| 6/1/2023 | 10:29:49 AM | Hennepin | HEN52 | 748.8 | 17.3 | 697.1 | 816.8 | 0.4 | 827.2 | 531 | 1434.4 | -1 |
| 6/1/2023 | 10:56:37 AM | Hennepin | HEN02 | 749.2 | 12.9 | 658.3 | 855.3 | 0.42 | 869.7 | 556 | 1519.1 | -0.3 |
| 6/1/2023 | 10:59:37 AM | Hennepin | HEN02 | 749.1 | 12.2 | 754.2 | 997.9 | 0.5 | 1015.1 | 649 | 1325.9 | -0.1 |
| 6/1/2023 | 11:02:37 AM | Hennepin | HEN02 | 749.1 | 12.2 | 765.1 | 1012.2 | 0.5 | 1029.5 | 658 | 1307 | -0.1 |

| DATE | TIME | SITE | DATA ID | Barometer | ODO (mg/L | TSS (mg/L) | Turbidity (NTU) | pH | pH (mV) | ORP (mV) | Temp (°C) | Cond (µS/c |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 9:06:03 AM | Hennepin | HEN27 | 758.5 | 1.22 | 0 | 11.64 | 6.97 | -21.1 | 3.1 | 12 | 847 |
| 5/31/2023 | 9:09:03 AM | Hennepin | HEN27 | 758.5 | 1.15 | 0 | 9.39 | 6.98 | -21.3 | -4.6 | 11.9 | 846.5 |
| 5/31/2023 | 9:12:03 AM | Hennepin | HEN27 | 758.6 | 1.09 | 0 | 5.47 | 6.98 | -21.4 | -10.3 | 11.9 | 846.1 |
| 5/31/2023 | 9:15:03 AM | Hennepin | HEN27 | 758.6 | 1.05 | 0 | 8.18 | 6.98 | -21.4 | -15.7 | 12 | 849 |
| 5/31/2023 | 9:33:46 AM | Hennepin | HEN32 | 758.6 | 2.69 | 0 | 31.45 | 6.98 | -21.6 | 83.2 | 11.1 | 734.6 |
| 5/31/2023 | 9:36:46 AM | Hennepin | HEN32 | 758.6 | 1.9 | 0 | 19.9 | 6.95 | -19.8 | 84 | 11 | 732.9 |
| 5/31/2023 | 9:39:46 AM | Hennepin | HEN32 | 758.7 | 1.56 | 0 | 14.63 | 6.93 | -18.5 | 84.9 | 11 | 732.3 |
| 5/31/2023 | 9:42:46 AM | Hennepin | HEN32 | 758.7 | 1.37 | 0 | 9.91 | 6.92 | -18.1 | 85.3 | 11.1 | 732.4 |
| 5/31/2023 | 9:45:46 AM | Hennepin | HEN32 | 758.7 | 1.24 | 0 | 6.19 | 6.92 | -17.9 | 85.7 | 11 | 730.9 |
| 5/31/2023 | 10:03:07 AM | Hennepin | HEN35 | 758.7 | 3.18 | 0 | 8.32 | 6.89 | -16.4 | 107.4 | 13 | 1281.4 |
| 5/31/2023 | 10:06:07 AM | Hennepin | HEN35 | 758.6 | 2.04 | 0 | 3.93 | 6.88 | -16 | 106.1 | 12.9 | 1269.5 |
| 5/31/2023 | 10:09:07 AM | Hennepin | HEN35 | 758.6 | 1.6 | 0 | 2.18 | 6.88 | -16 | 104.8 | 12.9 | 1267.7 |
| 5/31/2023 | 10:33:00 AM | Hennepin | HEN34 | 758.7 | 2.92 | 0 | 10.71 | 7.02 | -23.5 | -13 | 12.2 | 907.6 |
| 5/31/2023 | 10:36:00 AM | Hennepin | HEN34 | 758.7 | 1.98 | 0 | 4.75 | 6.94 | -19.3 | -64.2 | 12.2 | 926.4 |
| 5/31/2023 | 10:39:00 AM | Hennepin | HEN34 | 758.7 | 1.6 | 0 | 1.79 | 6.92 | -18.2 | -82.7 | 12.3 | 944.6 |
| 5/31/2023 | 10:57:16 AM | Hennepin | HEN21R | 758.7 | 1.91 | 0 | 69.19 | 7.34 | -41.3 | -157.6 | 13.1 | 887.7 |
| 5/31/2023 | 11:00:16 AM | Hennepin | HEN21R | 758.6 | 1.53 | 0 | 50.27 | 7.35 | -41.9 | -167.6 | 13.1 | 888.4 |

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 6/2/2023 16:55



| DATE | TIME | SITE | DATA ID | Barometer | Temp (°C) | Cond (µS/c | Sp Cond (µS/cm | Sal (psu) | nLFCond (µ | TDS (mg/L) | Resistivity ( | Sigma-T (s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 11:03:16 AM | Hennepin | HEN21R | 758.7 | 1.33 | 0 | 54.99 | 7.36 | -42.5 | -173.5 | 13 | 889 |
| 5/31/2023 | 11:06:16 AM | Hennepin | HEN21R | 758.7 | 1.21 | 0 | 46.74 | 7.36 | -42.8 | -177 | 13.1 | 889.6 |
| 5/31/2023 | 11:09:16 AM | Hennepin | HEN21R | 758.7 | 1.12 | 0 | 42.19 | 7.37 | -43.1 | -178.5 | 13.2 | 891.8 |
| 5/31/2023 | 11:28:07 AM | Hennepin | HEN51 | 758.2 | 2.56 | 0 | 9.63 | 7.2 | -33.5 | -121.3 | 13 | 867.5 |
| 5/31/2023 | 11:31:07 AM | Hennepin | HEN51 | 758.1 | 1.96 | 0 | 8.84 | 7.22 | -34.8 | -128.8 | 13 | 867.9 |
| 5/31/2023 | 11:34:07 AM | Hennepin | HEN51 | 758.2 | 1.66 | 0 | 6.89 | 7.23 | -35.4 | -133 | 12.9 | 866.9 |
| 5/31/2023 | 11:37:07 AM | Hennepin | HEN51 | 758.1 | 1.5 | 0 | 6.08 | 7.24 | -35.6 | -135.3 | 12.9 | 867.2 |
| 5/31/2023 | 11:54:11 AM | Hennepin | HEN23 | 758 | 3.09 | 0 | -0.46 | 7.4 | -44.9 | -128.2 | 12.9 | 996.3 |
| 5/31/2023 | 11:57:11 AM | Hennepin | HEN23 | 758 | 1.96 | 0 | -1.38 | 7.41 | -45.1 | -132.4 | 12.9 | 991.7 |
| 5/31/2023 | 12:00:11 PM | Hennepin | HEN23 | 758 | 1.55 | 0 | -1.79 | 7.41 | -45.5 | -127.1 | 13 | 988.6 |
| 5/31/2023 | 12:10:43 PM | Hennepin | HEN49 | 757.9 | 5.26 | 0 | 6.14 | 7.16 | -31.7 | -68.4 | 14.8 | 870.9 |
| 5/31/2023 | 12:13:43 PM | Hennepin | HEN49 | 757.9 | 2.34 | 0 | 20.09 | 7.07 | -26.7 | -39.8 | 14.8 | 869.8 |
| 5/31/2023 | 12:16:43 PM | Hennepin | HEN49 | 757.9 | 1.65 | 0 | 23.12 | 7.05 | -25.4 | -27.3 | 14.7 | 867.8 |
| 5/31/2023 | 12:19:43 PM | Hennepin | HEN49 | 757.9 | 1.36 | 0 | 21.09 | 7.04 | -24.8 | -19 | 14.9 | 869.7 |
| 5/31/2023 | 12:35:31 PM | Hennepin | HEN26 | 757.9 | 2.58 | 0 | -1.65 | 7.1 | -28.4 | 19.6 | 15 | 857 |
| 5/31/2023 | 12:38:31 PM | Hennepin | HEN26 | 757.9 | 1.75 | 0 | -2.66 | 7.07 | -26.6 | 18.3 | 14.9 | 854.4 |
| 5/31/2023 | 12:41:31 PM | Hennepin | HEN26 | 757.9 | 1.42 | 0 | -2.77 | 7.06 | -25.8 | 18.3 | 15 | 855.5 |
| 5/31/2023 | 12:53:20 PM | Hennepin | HEN25 | 757.7 | 2.94 | 0 | 9.17 | 7.17 | -32 | 34.3 | 13.5 | 696.9 |
| 5/31/2023 | 12:56:20 PM | Hennepin | HEN25 | 757.8 | 2.49 | 0 | 0.38 | 7.15 | -30.9 | 34.8 | 13.4 | 689.5 |
| 5/31/2023 | 12:59:20 PM | Hennepin | HEN25 | 757.7 | 2.45 | 0 | -1.34 | 7.15 | -30.7 | 36.3 | 13.4 | 685.8 |
| 5/31/2023 | 1:31:49 PM | Hennepin | HEN50 | 757.5 | 1.48 | 0 | 10.75 | 7.34 | -41.7 | 37.6 | 15.5 | 864.1 |
| 5/31/2023 | 1:34:49 PM | Hennepin | HEN50 | 757.4 | 1.29 | 0 | 5.59 | 7.35 | -41.9 | 35.2 | 15.6 | 865.3 |
| 5/31/2023 | 1:37:49 PM | Hennepin | HEN50 | 757.3 | 1.17 | 0 | 1.85 | 7.35 | -42 | 33.5 | 15.5 | 863.8 |
| 5/31/2023 | 1:55:01 PM | Hennepin | HEN22 | 757.3 | 2.78 | 0 | -0.9 | 7.58 | -55 | 56.8 | 15.9 | 826.3 |
| 5/31/2023 | 1:58:01 PM | Hennepin | HEN22 | 757.3 | 1.8 | 0 | -2.23 | 7.58 | -55 | 52.4 | 15.8 | 825.1 |
| 5/31/2023 | 2:01:01 PM | Hennepin | HEN22 | 757.3 | 1.43 | 0 | -2.68 | 7.58 | -55 | 48.8 | 15.7 | 822.1 |
| 5/31/2023 | 2:13:23 PM | Hennepin | HEN22D | 757.1 | 2.87 | 0 | 4.8 | 7.24 | -35.9 | -108 | 15.9 | 930.6 |
| 5/31/2023 | 2:16:23 PM | Hennepin | HEN22D | 757.2 | 1.74 | 0 | 3.75 | 7.24 | -35.8 | -118.3 | 15.9 | 927.2 |
| 5/31/2023 | 2:19:23 PM | Hennepin | HEN22D | 757.1 | 1.41 | 0 | 1.83 | 7.24 | -35.9 | -121 | 15.9 | 925.4 |
| 5/31/2023 | 3:04:48 PM | Hennepin | HEN08D | 756.7 | 2.5 | 0 | -0.62 | 6.65 | -2.9 | 68.5 | 13.9 | 1782.4 |
| 5/31/2023 | 3:07:48 PM | Hennepin | HEN08D | 756.7 | 1.85 | 0 | -1.36 | 6.64 | -2.3 | 73.3 | 13.9 | 1772.6 |
| 5/31/2023 | 3:10:48 PM | Hennepin | HEN08D | 756.7 | 1.55 | 0 | -2.01 | 6.63 | -2.2 | 77.1 | 13.8 | 1767.2 |
| 6/1/2023 | 8:48:28 AM | Hennepin | HEN08 | 758.6 | 2.95 | 0 | -2.93 | 6.52 | 1.3 | 169.5 | 13.4 | 1256.7 |
| 6/1/2023 | 8:51:28 AM | Hennepin | HEN08 | 758.7 | 2.73 | 0 | -2.96 | 6.53 | 1 | 168.6 | 13.3 | 1256.1 |

FILE CREATED: 6/2/2023 16:55

| DATE | TIME | SITE | DATA ID | Barometer | Temp (°C) | Cond (µS/c | Sp Cond (µS/cm | Sal (psu) | nLFCond (µ | TDS (mg/L) | Resistivity ( | Sigma-T (s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/1/2023 | 8:54:28 AM | Hennepin | HEN08 | 758.6 | 2.59 | 0 | -3.01 | 6.53 | 0.8 | 167.7 | 13.3 | 1255.5 |
| 6/1/2023 | 9:34:53 AM | Hennepin | HEN16 | 758.6 | 3.09 | 0 | -2.75 | 7.22 | -37.3 | 137.7 | 18.8 | 710.6 |
| 6/1/2023 | 9:37:53 AM | Hennepin | HEN16 | 758.6 | 2.92 | 0 | -2.85 | 7.21 | -36.9 | 138.1 | 18.7 | 710.6 |
| 6/1/2023 | 9:40:53 AM | Hennepin | HEN16 | 758.5 | 2.82 | 0 | -2.83 | 7.21 | -36.7 | 138.1 | 18.8 | 710.8 |
| 6/1/2023 | 10:02:08 AM | Hennepin | HEN17 | 758.4 | 8.14 | 0 | -0.9 | 6.99 | -24.4 | 148.6 | 15.9 | 721.9 |
| 6/1/2023 | 10:05:08 AM | Hennepin | HEN17 | 758.4 | 8.09 | 0 | -1.64 | 6.97 | -23.1 | 150.4 | 15.9 | 721 |
| 6/1/2023 | 10:08:08 AM | Hennepin | HEN17 | 758.5 | 8.01 | 0 | -0.91 | 6.96 | -22.8 | 151.1 | 15.9 | 720.5 |
| 6/1/2023 | 10:28:24 AM | Hennepin | HEN40S | 759.1 | 1.94 | 0 | -2.52 | 7.67 | -62 | 126.4 | 17 | 681.8 |
| 6/1/2023 | 10:31:24 AM | Hennepin | HEN40S | 759 | 1.55 | 0 | -2.72 | 7.67 | -62.3 | 125.1 | 16.9 | 680.4 |
| 6/1/2023 | 10:34:24 AM | Hennepin | HEN40S | 759.1 | 1.34 | 0 | -2.71 | 7.68 | -62.4 | 124.2 | 16.9 | 681.2 |
| 6/1/2023 | 11:00:10 AM | Hennepin | HEN45S | 759.7 | 1.53 | 0 | 4.52 | 6.94 | -21.7 | 136.5 | 19.9 | 1006.2 |
| 6/1/2023 | 11:03:10 AM | Hennepin | HEN45S | 759.6 | 1.26 | 0 | 2.67 | 6.94 | -21.5 | 137.5 | 19.9 | 1005 |
| 6/1/2023 | 11:06:10 AM | Hennepin | HEN45S | 759.6 | 1.11 | 0 | 2.52 | 6.94 | -21.4 | 137.8 | 19.9 | 1005.4 |
| 6/1/2023 | 11:39:31 AM | Hennepin | HEN07 | 758.3 | 3.3 | 0 | -2.91 | 6.7 | -8.4 | 152.9 | 11.8 | 897.4 |
| 6/1/2023 | 11:42:31 AM | Hennepin | HEN07 | 758.3 | 2.88 | 0 | -2.95 | 6.68 | -7.3 | 154 | 11.8 | 901.6 |
| 6/1/2023 | 11:45:31 AM | Hennepin | HEN07 | 758.3 | 2.6 | 0 | -3.05 | 6.66 | -6.6 | 154.7 | 11.8 | 903.9 |

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 6/2/2023 16:55

| DATE | TIME | SITE | DATA ID | Sigma (s) | TSS (mg/L) | Turbidity (NTU) | ODO (mg/L | pH | pH (mV) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 9:16:16 AM | Hennepin | HEN10 | -1 | 0 | -0.43 | 3.43 | 6.72 | -5.8 | 145.1 |
| 5/31/2023 | 9:19:16 AM | Hennepin | HEN10 | -1 | 0 | -0.86 | 3.71 | 6.76 | -8.1 | 145.2 |
| 5/31/2023 | 9:22:16 AM | Hennepin | HEN10 | -1 | 0 | -0.87 | 3.81 | 6.79 | -9.9 | 145.3 |
| 5/31/2023 | 9:50:05 AM | Hennepin | HEN47 | -1.1 | 0 | -0.04 | 3.73 | 6.94 | -17.6 | 141.7 |
| 5/31/2023 | 9:53:05 AM | Hennepin | HEN47 | -1.1 | 0 | 0.03 | 3.63 | 6.9 | -15.8 | 143.4 |
| 5/31/2023 | 9:56:05 AM | Hennepin | HEN47 | -1.1 | 0 | -0.83 | 3.6 | 6.89 | -15 | 144.7 |
| 5/31/2023 | 10:21:41 AM | Hennepin | HEN54 | -0.9 | 0 | 1.43 | 5.9 | 7.23 | -33.6 | 140.7 |
| 5/31/2023 | 10:24:41 AM | Hennepin | HEN54 | -0.9 | 0 | 0.45 | 5.73 | 7.11 | -26.9 | 145.4 |
| 5/31/2023 | 10:27:41 AM | Hennepin | HEN54 | -0.9 | 0 | -0.33 | 5.71 | 7.07 | -24.7 | 148.6 |
| 5/31/2023 | 10:54:26 AM | Hennepin | HEN46 | -0.8 | 0 | 0.24 | 5.15 | 7.25 | -34.6 | 131.4 |
| 5/31/2023 | 10:57:26 AM | Hennepin | HEN46 | -0.8 | 0 | -0.06 | 4.91 | 7.14 | -28.5 | 136.5 |
| 5/31/2023 | 11:00:26 AM | Hennepin | HEN46 | -0.8 | 0 | -0.46 | 4.84 | 7.1 | -26.7 | 139.6 |
| 5/31/2023 | 11:31:34 AM | Hennepin | HEN12 | -0.8 | 0 | -0.14 | 6.12 | 7.56 | -51.7 | 139.8 |
| 5/31/2023 | 11:34:34 AM | Hennepin | HEN12 | -0.7 | 0 | -0.7 | 5.16 | 7.25 | -34.5 | 144.7 |
| 5/31/2023 | 11:37:34 AM | Hennepin | HEN12 | -0.7 | 0 | -0.77 | 5.17 | 7.17 | -30.1 | 147.9 |
| 5/31/2023 | 11:58:05 AM | Hennepin | HEN13 | -0.8 | 0 | -0.34 | 5.24 | 7.21 | -32.3 | 151.1 |
| 5/31/2023 | 12:01:05 PM | Hennepin | HEN13 | -0.8 | 0 | -0.77 | 5.21 | 7.2 | -31.8 | 151.7 |
| 5/31/2023 | 12:04:05 PM | Hennepin | HEN13 | -0.8 | 0 | -0.78 | 5.2 | 7.2 | -31.7 | 152.2 |
| 5/31/2023 | 1:06:38 PM | Hennepin | HEN03R | -1.1 | 0 | 3.21 | 0.95 | 7.47 | -46.9 | 116 |
| 5/31/2023 | 1:09:38 PM | Hennepin | HEN03R | -1.1 | 0 | 1.17 | 0.82 | 7.31 | -38.1 | 116 |
| 5/31/2023 | 1:12:38 PM | Hennepin | HEN03R | -1.1 | 0 | 0.61 | 0.78 | 7.27 | -35.7 | 116 |
| 5/31/2023 | 1:43:10 PM | Hennepin | HEN18D | -1 | 0 | 5.27 | 1.16 | 7.24 | -34.3 | 139.7 |
| 5/31/2023 | 1:46:10 PM | Hennepin | HEN18D | -1 | 0 | 12.32 | 1 | 7.2 | -32.1 | 140.2 |
| 5/31/2023 | 1:49:10 PM | Hennepin | HEN18D | -1 | 0 | 16.77 | 0.86 | 7.19 | -31.7 | 140.1 |
| 5/31/2023 | 2:09:37 PM | Hennepin | HEN18S | -0.9 | 0 | -0.5 | 0.87 | 7.37 | -41.4 | 136 |
| 5/31/2023 | 2:12:37 PM | Hennepin | HEN18S | -0.9 | 0 | -0.74 | 0.84 | 7.36 | -40.8 | 135.3 |
| 5/31/2023 | 2:15:37 PM | Hennepin | HEN18S | -0.9 | 0 | -0.81 | 0.85 | 7.36 | -40.7 | 134.9 |
| 5/31/2023 | 2:52:51 PM | Hennepin | HEN05DR | -0.9 | 0 | -0.34 | 3.51 | 7.53 | -49.9 | 146.5 |
| 5/31/2023 | 2:55:50 PM | Hennepin | HEN05DR | -1 | 0 | -0.35 | 1.22 | 7.44 | -45 | 146.6 |
| 5/31/2023 | 2:58:50 PM | Hennepin | HEN05DR | -1 | 0 | -0.78 | 1.1 | 7.43 | -44.3 | 145.8 |
| 5/31/2023 | 3:11:19 PM | Hennepin | HEN05R | -0.9 | 0 | 1.09 | 1.4 | 7.65 | -56.3 | 145.1 |
| 5/31/2023 | 3:14:19 PM | Hennepin | HEN05R | -0.9 | 0 | -0.05 | 1.07 | 7.61 | -54.3 | 144.8 |
| 5/31/2023 | 3:17:19 PM | Hennepin | HEN05R | -0.9 | 0 | -0.52 | 1.03 | 7.6 | -53.8 | 144.2 |
| 6/1/2023 | 8:49:06 AM | Hennepin | HENXPW01 | -0.8 | 0 | 7.68 | 1.54 | 11.01 | -246.7 | -123.4 |

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 6/2/2023 16:55

| DATE | TIME | SITE | DATA ID | Sigma (s) | TSS (mg/L) | Turbidity (NTU) | ODO (mg/L | pH | pH (mV) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 6/1/2023 | 8:52:06 AM | Hennepin | HENXPW01 | -0.7 | 0 | 2.59 | 1.29 | 10.98 | -245.5 | -147.2 |
| 6/1/2023 | 8:55:06 AM | Hennepin | HENXPW01 | -0.7 | 0 | 2.15 | 1.18 | 10.98 | -245.4 | -161.9 |
| 6/1/2023 | 8:58:06 AM | Hennepin | HENXPW01 | -0.7 | 0 | 1.99 | 1.1 | 10.99 | -245.5 | -172.4 |
| 6/1/2023 | 9:19:17 AM | Hennepin | HENXPW02 | 0.3 | 0 | 4.88 | 2.1 | 11.76 | -288.7 | -53.1 |
| 6/1/2023 | 9:22:17 AM | Hennepin | HENXPW02 | 0.4 | 0 | 3.53 | 1.88 | 11.8 | -290.5 | -66.7 |
| 6/1/2023 | 9:25:17 AM | Hennepin | HENXPW02 | 0.4 | 0 | 1.35 | 1.57 | 11.82 | -291.5 | -74.7 |
| 6/1/2023 | 9:46:56 AM | Hennepin | HENXPW03 | -0.3 | 0 | 0.56 | 1.95 | 11.52 | -273.9 | -30.6 |
| 6/1/2023 | 9:49:56 AM | Hennepin | HENXPW03 | -0.3 | 0 | 0 | 1.5 | 11.42 | -268.7 | -33.5 |
| 6/1/2023 | 9:52:56 AM | Hennepin | HENXPW03 | -0.3 | 0 | -0.23 | 1.35 | 11.4 | -267.4 | -35.9 |
| 6/1/2023 | 10:23:49 AM | Hennepin | HEN52 | -1.1 | 0 | 3.09 | 6.13 | 8.37 | -100.7 | 64.1 |
| 6/1/2023 | 10:26:49 AM | Hennepin | HEN52 | -1 | 0 | 6.07 | 3.85 | 7.77 | -67.3 | 80.1 |
| 6/1/2023 | 10:29:49 AM | Hennepin | HEN52 | -1 | 0 | 2.82 | 3.71 | 7.49 | -51.4 | 92.2 |
| 6/1/2023 | 10:56:37 AM | Hennepin | HEN02 | -0.3 | 0 | 0.45 | 8.69 | 7.68 | -61.4 | 114.6 |
| 6/1/2023 | 10:59:37 AM | Hennepin | HEN02 | -0.1 | 0 | -0.11 | 2.31 | 7.03 | -26.2 | 127.1 |
| 6/1/2023 | 11:02:37 AM | Hennepin | HEN02 | -0.1 | 0 | -0.24 | 2.31 | 6.89 | -18.1 | 132.4 |

| DATE | TIME | SITE | DATA ID | Sp Cond (µ | Sal (psu) | nLFCond (µS/cm | TDS (mg/L) | Resistivity ( | Sigma-T (s | Sigma (s) |
|---|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 9:06:03 AM | Hennepin | HEN27 | 1128 | 0.56 | 1147.5 | 733 | 1180.6 | -0.1 | -0.1 |
| 5/31/2023 | 9:09:03 AM | Hennepin | HEN27 | 1128.4 | 0.56 | 1147.9 | 733 | 1181.3 | -0.1 | -0.1 |
| 5/31/2023 | 9:12:03 AM | Hennepin | HEN27 | 1128 | 0.56 | 1147.5 | 733 | 1181.9 | -0.1 | -0.1 |
| 5/31/2023 | 9:15:03 AM | Hennepin | HEN27 | 1128.8 | 0.56 | 1148.3 | 734 | 1177.9 | -0.1 | -0.1 |
| 5/31/2023 | 9:33:46 AM | Hennepin | HEN32 | 1001.2 | 0.5 | 1018.8 | 651 | 1361.2 | 0 | 0 |
| 5/31/2023 | 9:36:46 AM | Hennepin | HEN32 | 999.6 | 0.5 | 1017.1 | 650 | 1364.4 | 0 | 0 |
| 5/31/2023 | 9:39:46 AM | Hennepin | HEN32 | 999 | 0.5 | 1016.6 | 649 | 1365.6 | 0 | 0 |
| 5/31/2023 | 9:42:46 AM | Hennepin | HEN32 | 997.5 | 0.5 | 1015 | 648 | 1365.4 | 0 | 0 |
| 5/31/2023 | 9:45:46 AM | Hennepin | HEN32 | 997.2 | 0.5 | 1014.8 | 648 | 1368.1 | 0 | 0 |
| 5/31/2023 | 10:03:07 AM | Hennepin | HEN35 | 1663.9 | 0.85 | 1691.7 | 1082 | 780.4 | 0 | 0 |
| 5/31/2023 | 10:06:07 AM | Hennepin | HEN35 | 1652.8 | 0.84 | 1680.6 | 1074 | 787.7 | 0.1 | 0.1 |
| 5/31/2023 | 10:09:07 AM | Hennepin | HEN35 | 1647.1 | 0.84 | 1674.7 | 1071 | 788.8 | 0 | 0 |
| 5/31/2023 | 10:33:00 AM | Hennepin | HEN34 | 1201.8 | 0.6 | 1222.5 | 781 | 1101.8 | -0.1 | -0.1 |
| 5/31/2023 | 10:36:00 AM | Hennepin | HEN34 | 1225.3 | 0.61 | 1246.3 | 796 | 1079.4 | 0 | 0 |
| 5/31/2023 | 10:39:00 AM | Hennepin | HEN34 | 1247.9 | 0.63 | 1269.2 | 811 | 1058.6 | 0 | 0 |
| 5/31/2023 | 10:57:16 AM | Hennepin | HEN21R | 1149.1 | 0.58 | 1168.3 | 747 | 1126.5 | -0.2 | -0.2 |
| 5/31/2023 | 11:00:16 AM | Hennepin | HEN21R | 1150.9 | 0.58 | 1170.1 | 748 | 1125.6 | -0.2 | -0.2 |

FILE CREATED: 6/2/2023 16:55

| DATE | TIME | SITE | DATA ID | Sigma (s) | TSS (mg/L) | Turbidity (NTU) | ODO (mg/L | pH | pH (mV) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 5/31/2023 | 11:03:16 AM | Hennepin | HEN21R | 1152.8 | 0.58 | 1172 | 749 | 1124.8 | -0.2 | -0.2 |
| 5/31/2023 | 11:06:16 AM | Hennepin | HEN21R | 1150.1 | 0.58 | 1169.2 | 748 | 1124.1 | -0.2 | -0.2 |
| 5/31/2023 | 11:09:16 AM | Hennepin | HEN21R | 1152.6 | 0.58 | 1171.8 | 749 | 1121.3 | -0.2 | -0.2 |
| 5/31/2023 | 11:28:07 AM | Hennepin | HEN51 | 1126.5 | 0.56 | 1145.3 | 732 | 1152.8 | -0.2 | -0.2 |
| 5/31/2023 | 11:31:07 AM | Hennepin | HEN51 | 1126.6 | 0.56 | 1145.5 | 732 | 1152.2 | -0.2 | -0.2 |
| 5/31/2023 | 11:34:07 AM | Hennepin | HEN51 | 1127 | 0.56 | 1145.9 | 733 | 1153.6 | -0.2 | -0.2 |
| 5/31/2023 | 11:37:07 AM | Hennepin | HEN51 | 1128.8 | 0.56 | 1147.8 | 734 | 1153.1 | -0.2 | -0.2 |
| 5/31/2023 | 11:54:11 AM | Hennepin | HEN23 | 1295.7 | 0.65 | 1317.4 | 842 | 1003.7 | -0.1 | -0.1 |
| 5/31/2023 | 11:57:11 AM | Hennepin | HEN23 | 1289.1 | 0.65 | 1310.7 | 838 | 1008.4 | -0.1 | -0.1 |
| 5/31/2023 | 12:00:11 PM | Hennepin | HEN23 | 1282 | 0.64 | 1303.5 | 833 | 1011.5 | -0.1 | -0.1 |
| 5/31/2023 | 12:10:43 PM | Hennepin | HEN49 | 1082.6 | 0.54 | 1099.3 | 704 | 1148.2 | -0.4 | -0.4 |
| 5/31/2023 | 12:13:43 PM | Hennepin | HEN49 | 1080.4 | 0.54 | 1097 | 702 | 1149.7 | -0.4 | -0.4 |
| 5/31/2023 | 12:16:43 PM | Hennepin | HEN49 | 1079.3 | 0.54 | 1095.9 | 702 | 1152.4 | -0.4 | -0.4 |
| 5/31/2023 | 12:19:43 PM | Hennepin | HEN49 | 1078.8 | 0.54 | 1095.3 | 701 | 1149.8 | -0.5 | -0.5 |
| 5/31/2023 | 12:35:31 PM | Hennepin | HEN26 | 1059.8 | 0.53 | 1075.9 | 689 | 1166.9 | -0.5 | -0.5 |
| 5/31/2023 | 12:38:31 PM | Hennepin | HEN26 | 1058 | 0.53 | 1074.1 | 688 | 1170.4 | -0.5 | -0.5 |
| 5/31/2023 | 12:41:31 PM | Hennepin | HEN26 | 1058.7 | 0.53 | 1074.8 | 688 | 1168.9 | -0.5 | -0.5 |
| 5/31/2023 | 12:53:20 PM | Hennepin | HEN25 | 893.9 | 0.44 | 908.6 | 581 | 1435 | -0.3 | -0.3 |
| 5/31/2023 | 12:56:20 PM | Hennepin | HEN25 | 885.4 | 0.44 | 900 | 576 | 1450.3 | -0.3 | -0.3 |
| 5/31/2023 | 12:59:20 PM | Hennepin | HEN25 | 881.5 | 0.44 | 896.1 | 573 | 1458.3 | -0.3 | -0.3 |
| 5/31/2023 | 1:31:49 PM | Hennepin | HEN50 | 1055.5 | 0.53 | 1071 | 686 | 1157.3 | -0.6 | -0.6 |
| 5/31/2023 | 1:34:49 PM | Hennepin | HEN50 | 1054.7 | 0.53 | 1070.1 | 686 | 1155.6 | -0.6 | -0.6 |
| 5/31/2023 | 1:37:49 PM | Hennepin | HEN50 | 1054.6 | 0.53 | 1070.1 | 686 | 1157.6 | -0.6 | -0.6 |
| 5/31/2023 | 1:55:01 PM | Hennepin | HEN22 | 1000.6 | 0.5 | 1014.9 | 650 | 1210.2 | -0.6 | -0.6 |
| 5/31/2023 | 1:58:01 PM | Hennepin | HEN22 | 1000.3 | 0.5 | 1014.7 | 650 | 1211.9 | -0.6 | -0.6 |
| 5/31/2023 | 2:01:01 PM | Hennepin | HEN22 | 998.8 | 0.5 | 1013.2 | 649 | 1216.4 | -0.6 | -0.6 |
| 5/31/2023 | 2:13:23 PM | Hennepin | HEN22D | 1126.4 | 0.56 | 1142.5 | 732 | 1074.5 | -0.6 | -0.6 |
| 5/31/2023 | 2:16:23 PM | Hennepin | HEN22D | 1122.3 | 0.56 | 1138.4 | 730 | 1078.5 | -0.6 | -0.6 |
| 5/31/2023 | 2:19:23 PM | Hennepin | HEN22D | 1119 | 0.56 | 1134.9 | 727 | 1080.6 | -0.6 | -0.6 |
| 5/31/2023 | 3:04:48 PM | Hennepin | HEN08D | 2259.7 | 1.17 | 2296.1 | 1469 | 561 | 0.2 | 0.2 |
| 5/31/2023 | 3:07:48 PM | Hennepin | HEN08D | 2251.9 | 1.16 | 2288.3 | 1464 | 564.1 | 0.2 | 0.2 |
| 5/31/2023 | 3:10:48 PM | Hennepin | HEN08D | 2246.5 | 1.16 | 2282.8 | 1460 | 565.9 | 0.2 | 0.2 |
| 6/1/2023 | 8:48:28 AM | Hennepin | HEN08 | 1615.4 | 0.82 | 1642 | 1050 | 795.8 | 0 | 0 |
| 6/1/2023 | 8:51:28 AM | Hennepin | HEN08 | 1615.8 | 0.82 | 1642.4 | 1050 | 796.1 | 0 | 0 |

KorDSS MEASUREMENT DATA FILE EXPORT

FILE CREATED: 6/2/2023 16:55

| DATE | TIME | SITE | DATA ID | Sigma (s) | TSS (mg/L) | Turbidity (NTU) | ODO (mg/L | pH | pH (mV) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|---|---|
| 6/1/2023 | 8:54:28 AM | Hennepin | HEN08 | 1616.9 | 0.82 | 1643.6 | 1051 | 796.5 | 0 | 0 |
| 6/1/2023 | 9:34:53 AM | Hennepin | HEN16 | 806.9 | 0.4 | 815.5 | 524 | 1407.3 | -1.2 | -1.2 |
| 6/1/2023 | 9:37:53 AM | Hennepin | HEN16 | 807 | 0.4 | 815.7 | 525 | 1407.3 | -1.2 | -1.2 |
| 6/1/2023 | 9:40:53 AM | Hennepin | HEN16 | 807 | 0.4 | 815.6 | 525 | 1406.8 | -1.2 | -1.2 |
| 6/1/2023 | 10:02:08 AM | Hennepin | HEN17 | 874.7 | 0.43 | 887.2 | 569 | 1385.3 | -0.7 | -0.7 |
| 6/1/2023 | 10:05:08 AM | Hennepin | HEN17 | 873 | 0.43 | 885.5 | 567 | 1387 | -0.7 | -0.7 |
| 6/1/2023 | 10:08:08 AM | Hennepin | HEN17 | 872.1 | 0.43 | 884.6 | 567 | 1388 | -0.7 | -0.7 |
| 6/1/2023 | 10:28:24 AM | Hennepin | HEN40S | 805.5 | 0.4 | 816 | 524 | 1466.6 | -0.9 | -0.9 |
| 6/1/2023 | 10:31:24 AM | Hennepin | HEN40S | 804.2 | 0.4 | 814.8 | 523 | 1469.8 | -0.9 | -0.9 |
| 6/1/2023 | 10:34:24 AM | Hennepin | HEN40S | 805.7 | 0.4 | 816.3 | 524 | 1467.9 | -0.9 | -0.9 |
| 6/1/2023 | 11:00:10 AM | Hennepin | HEN45S | 1114.4 | 0.55 | 1124.4 | 724 | 993.8 | -1.4 | -1.4 |
| 6/1/2023 | 11:03:10 AM | Hennepin | HEN45S | 1113.9 | 0.55 | 1123.9 | 724 | 995.1 | -1.3 | -1.3 |
| 6/1/2023 | 11:06:10 AM | Hennepin | HEN45S | 1114.4 | 0.55 | 1124.5 | 724 | 994.6 | -1.3 | -1.3 |
| 6/1/2023 | 11:39:31 AM | Hennepin | HEN07 | 1199.7 | 0.6 | 1220.5 | 780 | 1114.3 | 0 | 0 |
| 6/1/2023 | 11:42:31 AM | Hennepin | HEN07 | 1206.5 | 0.6 | 1227.5 | 784 | 1109.2 | 0 | 0 |
| 6/1/2023 | 11:45:31 AM | Hennepin | HEN07 | 1209.8 | 0.61 | 1230.8 | 786 | 1106.3 | 0 | 0 |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | JR,JC/TAC,BG |

| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
|---|---|---|---|---|---|---|---|---|---|
| HEN02 | 6/1/2023 | 11:02 | 1102 | 12.2 | 53.96 | 6.89 | 1012.2 | 1012.2 | 2.31 |
| HEN03R | 5/31/2023 | 13:12 | 1312 | 18.4 | 65.12 | 7.27 | 926.7 | 926.7 | 0.78 |
| HEN05R | 5/31/2023 | 15:17 | 1517 | 17.1 | 62.78 | 7.6 | 857.7 | 857.7 | 1.03 |
| HEN05DR | 5/31/2023 | 14:58 | 1458 | 17.5 | 63.5 | 7.43 | 864.3 | 864.3 | 1.1 |
| HEN07 | 6/1/2023 | 11:45 | 1145 | 11.8 | 53.24 | 6.66 | 1209.8 | 1209.8 | 2.6 |
| HEN08 | 6/1/2023 | 8:54 | 0854 | 13.3 | 55.94 | 6.53 | 1616.9 | 1616.9 | 2.59 |
| HEN08D | 5/31/2023 | 15:10 | 1510 | 13.8 | 56.84 | 6.63 | 2246.5 | 2246.5 | 1.55 |
| HEN10 | 5/31/2023 | 9:22 | 0922 | 17.5 | 63.5 | 6.79 | 845.7 | 845.7 | 3.81 |
| HEN12 | 5/31/2023 | 11:37 | 1137 | 15.7 | 60.26 | 7.17 | 817.4 | 817.4 | 5.17 |
| HEN13 | 5/31/2023 | 12:04 | 1204 | 16.2 | 61.16 | 7.2 | 813.7 | 813.7 | 5.2 |
| HEN16 | 6/1/2023 | 9:40 | 0940 | 18.8 | 65.84 | 7.21 | 807 | 807 | 2.82 |
| HEN17 | 6/1/2023 | 10:08 | 1008 | 15.9 | 60.62 | 6.96 | 872.1 | 872.1 | 8.01 |
| HEN18S | 5/31/2023 | 14:15 | 1415 | 17.2 | 62.96 | 7.36 | 921 | 921 | 0.85 |
| HEN18D | 5/31/2023 | 13:49 | 1349 | 17.5 | 63.5 | 7.19 | 921.7 | 921.7 | 0.86 |
| HEN21R | 5/31/2023 | 11:09 | 1109 | 13.2 | 55.76 | 7.37 | 1152.6 | 1152.6 | 1.12 |
| HEN22 | 5/31/2023 | 14:01 | 1401 | 15.7 | 60.26 | 7.58 | 998.8 | 998.8 | 1.43 |
| HEN22D | 5/31/2023 | 14:19 | 1419 | 15.9 | 60.62 | 7.24 | 1119 | 1119 | 1.41 |
| HEN23 | 5/31/2023 | 12:00 | 1200 | 13 | 55.4 | 7.41 | 1282 | 1282 | 1.55 |
| HEN25 | 5/31/2023 | 12:59 | 1259 | 13.4 | 56.12 | 7.15 | 881.5 | 881.5 | 2.45 |
| HEN26 | 5/31/2023 | 12:41 | 1241 | 15 | 59 | 7.06 | 1058.7 | 1058.7 | 1.42 |
| HEN27 | 5/31/2023 | 9:15 | 0915 | 12 | 53.6 | 6.98 | 1128.8 | 1128.8 | 1.05 |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| HEN32 | 5/31/2023 | 9:45 | 0945 | 11 | 51.8 | 6.92 | 997.2 | 997.2 | 1.24 |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| HEN34 | 5/31/2023 | 10:39 | 1039 | 12.3 | 54.14 | 6.92 | 1247.9 | 1247.9 | 1.6 |
| HEN35 | 5/31/2023 | 10:09 | 1009 | 12.9 | 55.22 | 6.88 | 1647.1 | 1647.1 | 1.6 |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| HEN40S | 6/1/2023 | 10:34 | 1034 | 16.9 | 62.42 | 7.68 | 805.7 | 805.7 | 1.34 |
| HEN45S | 6/1/2023 | 11:06 | 1106 | 19.9 | 67.82 | 6.94 | 1114.4 | 1114.4 | 1.11 |
| HEN46 | 5/31/2023 | 11:00 | 1100 | 16.1 | 60.98 | 7.1 | 815.3 | 815.3 | 4.84 |
| HEN47 | 5/31/2023 | 9:56 | 0956 | 18.1 | 64.58 | 6.89 | 868.3 | 868.3 | 3.6 |
| HEN49 | 5/31/2023 | 12:19 | 1219 | 14.9 | 58.82 | 7.04 | 1078.8 | 1078.8 | 1.36 |
| HEN50 | 5/31/2023 | 13:37 | 1337 | 15.5 | 59.9 | 7.35 | 1054.6 | 1054.6 | 1.17 |
| HEN51 | 5/31/2023 | 11:37 | 1137 | 12.9 | 55.22 | 7.24 | 1128.8 | 1128.8 | 1.5 |
| HEN52 | 6/1/2023 | 10:29 | 1029 | 17.3 | 63.14 | 7.49 | 816.8 | 816.8 | 3.71 |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | |
| Technician | JR,JC/TAC,BG | | | | | | | | |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| HEN54 | 5/31/2023 | 10:27 | 1027 | 17.1 | 62.78 | 7.07 | 827.9 | 827.9 | 5.71 |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| HENXPW01 | 6/1/2023 | 8:58 | 0858 | 16.5 | 61.7 | 10.99 | 1116.4 | 1116.4 | 1.1 |
| HENXPW02 | 6/1/2023 | 9:25 | 0925 | 16.3 | 61.34 | 11.82 | 3688 | 3688 | 1.57 |
| HENXPW03 | 6/1/2023 | 9:52 | 0952 | 15.5 | 59.9 | 11.4 | 1573.1 | 1573.1 | 1.35 |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |
| Well ID | Date | Time | Time (adj) | Temp (deg C) | Temp (deg F) | pH (SU) | Sp Cond (µS/cm) | Sp Cond (µmhos/cm @25C) | ODO (mg/L) |

| Site Sampling Event | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | | | | | | | | |
| Technician | | | | | | | | |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | DTB (ft) | DTW (ft) | MP Elev (ft) | GW Elev (ft) | LIMS ID |
| HEN02 | -0.24 | 132.4 | | | 44.96 | | | 23051600-001A |
| HEN03R | 0.61 | 116 | | | 35.04 | | | 23051600-002A |
| HEN05R | -0.52 | 144.2 | | | 41.35 | | | 23051600-003A |
| HEN05DR | -0.78 | 145.8 | | | 41.32 | | | 23051600-004A |
| HEN07 | -3.05 | 154.7 | | | 67.8 | | | 23051600-005A |
| HEN08 | -3.01 | 167.7 | | | 53.84 | | | 23051600-006A |
| HEN08D | -2.01 | 77.1 | | | 54.12 | | | 23051600-007A |
| HEN10 | -0.87 | 145.3 | | | 50.78 | | | 23051600-008A |
| HEN12 | -0.77 | 147.9 | | | 51.21 | | | 23051600-009A |
| HEN13 | -0.78 | 152.2 | | | 51.21 | | | 23051600-010A |
| HEN16 | -2.83 | 138.1 | | | 54.57 | | | 23051600-011A |
| HEN17 | -0.91 | 151.1 | | | 55.96 | | | 23051600-012A |
| HEN18S | -0.81 | 134.9 | | | 40.86 | | | 23051600-013A |
| HEN18D | 16.77 | 140.1 | | | 40.91 | | | 23051600-014A |
| HEN21R | 42.19 | -178.5 | | | 5.92 | | | 23051600-015A |
| HEN22 | -2.68 | 48.8 | | | 18.45 | | | 23051600-016A |
| HEN22D | 1.83 | -121 | | | 19.1 | | | 23051600-017A |
| HEN23 | -1.79 | -127.1 | | | 16.72 | | | 23051600-018A |
| HEN25 | -1.34 | 36.3 | | | 15.94 | | | 23051600-019A |
| HEN26 | -2.77 | 18.3 | | | 16 | | | 23051600-020A |
| HEN27 | 8.18 | -15.7 | | | 4.14 | | | 23051600-021A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 6.62 | | | 23051600-022A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 6.56 | | | 23051600-023A |
| HEN32 | 6.19 | 85.7 | | | 5.22 | | | 23051600-024A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 4.03 | | | 23051600-025A |
| HEN34 | 1.79 | -82.7 | | | 8.66 | | | 23051600-026A |
| HEN35 | 2.18 | 104.8 | | | 8.3 | | | 23051600-027A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 15.32 | | | 23051600-028A |
| HEN40S | -2.71 | 124.2 | | | 40.54 | | | 23051600-029A |
| HEN45S | 2.52 | 137.8 | | | 20.42 | | | 23051600-030A |
| HEN46 | -0.46 | 139.6 | | | 51.4 | | | 23051600-031A |
| HEN47 | -0.83 | 144.7 | | | 55.66 | | | 23051600-032A |
| HEN49 | 21.09 | -19 | | | 21.54 | | | 23051600-033A |
| HEN50 | 1.85 | 33.5 | | | 18.25 | | | 23051600-034A |
| HEN51 | 6.08 | -135.3 | | | 18.5 | | | 23051600-035A |
| HEN52 | 2.82 | 92.2 | | | 53.89 | | | 23051600-036A |

| Site Sampling Event | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | | | | | | | | |
| Technician | | | | | | | | |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | DTB (ft) | DTW (ft) | MP Elev (ft) | GW Elev (ft) | LIMS ID |
| HEN54 | -0.33 | 148.6 | | | 53.23 | | | 23051600-037A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 50.55 | | | 23051600-038A |
| HENXPW01 | 1.99 | -172.4 | | | 10.25 | | | 23051600-039A |
| HENXPW02 | 1.35 | -74.7 | | | 15.37 | | | 23051600-040A |
| HENXPW03 | -0.23 | -35.9 | | | 6.41 | | | 23051600-041A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 7.17 | | | 23051600-042A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 440.5 | | | 23051600-043A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | | | | 23051600-044A |
| Well ID | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) | | 53.84 | | | 23051600-045A |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN02 | 6/1/2023 | 10:56 | 1056 | 44.96 | | 12.9 | 55.22 | 7.68 | 855.3 | 855.3 |
| HEN02 | 6/1/2023 | 10:59 | 1059 | 44.96 | | 12.2 | 53.96 | 7.03 | 997.9 | 997.9 |
| HEN02 | 6/1/2023 | 11:02 | 1102 | 44.96 | | 12.2 | 53.96 | 6.89 | 1012.2 | 1012.2 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN02 | 6/1/2023 | 8.69 | 0.45 | 114.6 | |
| HEN02 | 6/1/2023 | 2.31 | -0.11 | 127.1 | |
| HEN02 | 6/1/2023 | 2.31 | -0.24 | 132.4 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN03R | 5/31/2023 | 13:06 | 1306 | 35.04 | | 18.5 | 65.3 | 7.47 | 928.9 | 928.9 |
| HEN03R | 5/31/2023 | 13:09 | 1309 | 35.04 | | 18.4 | 65.12 | 7.31 | 927.4 | 927.4 |
| HEN03R | 5/31/2023 | 13:12 | 1312 | 35.04 | | 18.4 | 65.12 | 7.27 | 926.7 | 926.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN03R | 5/31/2023 | 0.95 | 3.21 | 116 | |
| HEN03R | 5/31/2023 | 0.82 | 1.17 | 116 | |
| HEN03R | 5/31/2023 | 0.78 | 0.61 | 116 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN05R | 5/31/2023 | 15:11 | 1511 | 41.35 | | 17.1 | 62.78 | 7.65 | 858.7 | 858.7 |
| HEN05R | 5/31/2023 | 15:14 | 1514 | 41.35 | | 17.2 | 62.96 | 7.61 | 858 | 858 |
| HEN05R | 5/31/2023 | 15:17 | 1517 | 41.35 | | 17.1 | 62.78 | 7.6 | 857.7 | 857.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN05R | 5/31/2023 | 1.4 | 1.09 | 145.1 | |
| HEN05R | 5/31/2023 | 1.07 | -0.05 | 144.8 | |
| HEN05R | 5/31/2023 | 1.03 | -0.52 | 144.2 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN05DR | 5/31/2023 | 14:52 | 1452 | 41.32 | | 17.3 | 63.14 | 7.53 | 861.5 | 861.5 |
| HEN05DR | 5/31/2023 | 14:55 | 1455 | 41.32 | | 17.4 | 63.32 | 7.44 | 864.8 | 864.8 |
| HEN05DR | 5/31/2023 | 14:58 | 1458 | 41.32 | | 17.5 | 63.5 | 7.43 | 864.3 | 864.3 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN05DR | 5/31/2023 | 3.51 | -0.34 | 146.5 | |
| HEN05DR | 5/31/2023 | 1.22 | -0.35 | 146.6 | |
| HEN05DR | 5/31/2023 | 1.1 | -0.78 | 145.8 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN07 | 6/1/2023 | 11:39 | 1139 | 67.8 | | 11.8 | 53.24 | 6.7 | 1199.7 | 1199.7 |
| HEN07 | 6/1/2023 | 11:42 | 1142 | 67.8 | | 11.8 | 53.24 | 6.68 | 1206.5 | 1206.5 |
| HEN07 | 6/1/2023 | 11:45 | 1145 | 67.8 | | 11.8 | 53.24 | 6.66 | 1209.8 | 1209.8 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN07 | 6/1/2023 | 3.3 | -2.91 | 152.9 | |
| HEN07 | 6/1/2023 | 2.88 | -2.95 | 154 | |
| HEN07 | 6/1/2023 | 2.6 | -3.05 | 154.7 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN08 | 6/1/2023 | 8:48 | 0848 | 53.84 | | 13.4 | 56.12 | 6.52 | 1615.4 | 1615.4 |
| HEN08 | 6/1/2023 | 8:51 | 0851 | 53.84 | | 13.3 | 55.94 | 6.53 | 1615.8 | 1615.8 |
| HEN08 | 6/1/2023 | 8:54 | 0854 | 53.84 | | 13.3 | 55.94 | 6.53 | 1616.9 | 1616.9 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN08 | 6/1/2023 | 2.95 | -2.93 | 169.5 | |
| HEN08 | 6/1/2023 | 2.73 | -2.96 | 168.6 | |
| HEN08 | 6/1/2023 | 2.59 | -3.01 | 167.7 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN08D | 5/31/2023 | 15:04 | 1504 | 54.12 | | 13.9 | 57.02 | 6.65 | 2259.7 | 2259.7 |
| HEN08D | 5/31/2023 | 15:07 | 1507 | 54.12 | | 13.9 | 57.02 | 6.64 | 2251.9 | 2251.9 |
| HEN08D | 5/31/2023 | 15:10 | 1510 | 54.12 | | 13.8 | 56.84 | 6.63 | 2246.5 | 2246.5 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN08D | 5/31/2023 | 2.5 | -0.62 | 68.5 | |
| HEN08D | 5/31/2023 | 1.85 | -1.36 | 73.3 | |
| HEN08D | 5/31/2023 | 1.55 | -2.01 | 77.1 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN10 | 5/31/2023 | 9:16 | 0916 | 50.78 | | 17.5 | 63.5 | 6.72 | 848.9 | 848.9 |
| HEN10 | 5/31/2023 | 9:19 | 0919 | 50.78 | | 17.5 | 63.5 | 6.76 | 846.3 | 846.3 |
| HEN10 | 5/31/2023 | 9:22 | 0922 | 50.78 | | 17.5 | 63.5 | 6.79 | 845.7 | 845.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN10 | 5/31/2023 | 3.43 | -0.43 | 145.1 | |
| HEN10 | 5/31/2023 | 3.71 | -0.86 | 145.2 | |
| HEN10 | 5/31/2023 | 3.81 | -0.87 | 145.3 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN12 | 5/31/2023 | 11:31 | 1131 | 51.21 | | 16.3 | 61.34 | 7.56 | 827.5 | 827.5 |
| HEN12 | 5/31/2023 | 11:34 | 1134 | 51.21 | | 15.7 | 60.26 | 7.25 | 816.9 | 816.9 |
| HEN12 | 5/31/2023 | 11:37 | 1137 | 51.21 | | 15.7 | 60.26 | 7.17 | 817.4 | 817.4 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN12 | 5/31/2023 | 6.12 | -0.14 | 139.8 | |
| HEN12 | 5/31/2023 | 5.16 | -0.7 | 144.7 | |
| HEN12 | 5/31/2023 | 5.17 | -0.77 | 147.9 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN13 | 5/31/2023 | 11:58 | 1158 | 51.21 | | 16.1 | 60.98 | 7.21 | 815.2 | 815.2 |
| HEN13 | 5/31/2023 | 12:01 | 1201 | 51.21 | | 16.2 | 61.16 | 7.2 | 814.4 | 814.4 |
| HEN13 | 5/31/2023 | 12:04 | 1204 | 51.21 | | 16.2 | 61.16 | 7.2 | 813.7 | 813.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN13 | 5/31/2023 | 5.24 | -0.34 | 151.1 | |
| HEN13 | 5/31/2023 | 5.21 | -0.77 | 151.7 | |
| HEN13 | 5/31/2023 | 5.2 | -0.78 | 152.2 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN16 | 6/1/2023 | 9:34 | 0934 | 54.57 | | 18.8 | 65.84 | 7.22 | 806.9 | 806.9 |
| HEN16 | 6/1/2023 | 9:37 | 0937 | 54.57 | | 18.7 | 65.66 | 7.21 | 807 | 807 |
| HEN16 | 6/1/2023 | 9:40 | 0940 | 54.57 | | 18.8 | 65.84 | 7.21 | 807 | 807 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN16 | 6/1/2023 | 3.09 | -2.75 | 137.7 | |
| HEN16 | 6/1/2023 | 2.92 | -2.85 | 138.1 | |
| HEN16 | 6/1/2023 | 2.82 | -2.83 | 138.1 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN17 | 6/1/2023 | 10:02 | 1002 | 55.96 | | 15.9 | 60.62 | 6.99 | 874.7 | 874.7 |
| HEN17 | 6/1/2023 | 10:05 | 1005 | 55.96 | | 15.9 | 60.62 | 6.97 | 873 | 873 |
| HEN17 | 6/1/2023 | 10:08 | 1008 | 55.96 | | 15.9 | 60.62 | 6.96 | 872.1 | 872.1 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN17 | 6/1/2023 | 8.14 | -0.9 | 148.6 | |
| HEN17 | 6/1/2023 | 8.09 | -1.64 | 150.4 | |
| HEN17 | 6/1/2023 | 8.01 | -0.91 | 151.1 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN18S | 5/31/2023 | 14:09 | 1409 | 40.86 | | 17.2 | 62.96 | 7.37 | 919.8 | 919.8 |
| HEN18S | 5/31/2023 | 14:12 | 1412 | 40.86 | | 17.2 | 62.96 | 7.36 | 920.3 | 920.3 |
| HEN18S | 5/31/2023 | 14:15 | 1415 | 40.86 | | 17.2 | 62.96 | 7.36 | 921 | 921 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN18S | 5/31/2023 | 0.87 | -0.5 | 136 | |
| HEN18S | 5/31/2023 | 0.84 | -0.74 | 135.3 | |
| HEN18S | 5/31/2023 | 0.85 | -0.81 | 134.9 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN18D | 5/31/2023 | 13:43 | 1343 | 40.91 | | 17.5 | 63.5 | 7.24 | 920.9 | 920.9 |
| HEN18D | 5/31/2023 | 13:46 | 1346 | 40.91 | | 17.5 | 63.5 | 7.2 | 923.1 | 923.1 |
| HEN18D | 5/31/2023 | 13:49 | 1349 | 40.91 | | 17.5 | 63.5 | 7.19 | 921.7 | 921.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN18D | 5/31/2023 | 1.16 | 5.27 | 139.7 | |
| HEN18D | 5/31/2023 | 1 | 12.32 | 140.2 | |
| HEN18D | 5/31/2023 | 0.86 | 16.77 | 140.1 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN21R | 5/31/2023 | 10:57 | 1057 | 5.92 | | 13.1 | 55.58 | 7.34 | 1149.1 | 1149.1 |
| HEN21R | 5/31/2023 | 11:00 | 1100 | 5.92 | | 13.1 | 55.58 | 7.35 | 1150.9 | 1150.9 |
| HEN21R | 5/31/2023 | 11:03 | 1103 | 5.92 | | 13 | 55.4 | 7.36 | 1152.8 | 1152.8 |
| HEN21R | 5/31/2023 | 11:06 | 1106 | 5.92 | | 13.1 | 55.58 | 7.36 | 1150.1 | 1150.1 |
| HEN21R | 5/31/2023 | 11:09 | 1109 | 5.92 | | 13.2 | 55.76 | 7.37 | 1152.6 | 1152.6 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN21R | 5/31/2023 | 1.91 | 69.19 | -157.6 | |
| HEN21R | 5/31/2023 | 1.53 | 50.27 | -167.6 | |
| HEN21R | 5/31/2023 | 1.33 | 54.99 | -173.5 | |
| HEN21R | 5/31/2023 | 1.21 | 46.74 | -177 | |
| HEN21R | 5/31/2023 | 1.12 | 42.19 | -178.5 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN22 | 5/31/2023 | 13:55 | 1355 | 18.45 | | 15.9 | 60.62 | 7.58 | 1000.6 | 1000.6 |
| HEN22 | 5/31/2023 | 13:58 | 1358 | 18.45 | | 15.8 | 60.44 | 7.58 | 1000.3 | 1000.3 |
| HEN22 | 5/31/2023 | 14:01 | 1401 | 18.45 | | 15.7 | 60.26 | 7.58 | 998.8 | 998.8 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN22 | 5/31/2023 | 2.78 | -0.9 | 56.8 | |
| HEN22 | 5/31/2023 | 1.8 | -2.23 | 52.4 | |
| HEN22 | 5/31/2023 | 1.43 | -2.68 | 48.8 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN22D | 5/31/2023 | 14:13 | 1413 | 19.1 | | 15.9 | 60.62 | 7.24 | 1126.4 | 1126.4 |
| HEN22D | 5/31/2023 | 14:16 | 1416 | 19.1 | | 15.9 | 60.62 | 7.24 | 1122.3 | 1122.3 |
| HEN22D | 5/31/2023 | 14:19 | 1419 | 19.1 | | 15.9 | 60.62 | 7.24 | 1119 | 1119 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN22D | 5/31/2023 | 2.87 | 4.8 | -108 | |
| HEN22D | 5/31/2023 | 1.74 | 3.75 | -118.3 | |
| HEN22D | 5/31/2023 | 1.41 | 1.83 | -121 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN23 | 5/31/2023 | 11:54 | 1154 | 16.72 | | 12.9 | 55.22 | 7.4 | 1295.7 | 1295.7 |
| HEN23 | 5/31/2023 | 11:57 | 1157 | 16.72 | | 12.9 | 55.22 | 7.41 | 1289.1 | 1289.1 |
| HEN23 | 5/31/2023 | 12:00 | 1200 | 16.72 | | 13 | 55.4 | 7.41 | 1282 | 1282 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN23 | 5/31/2023 | 3.09 | -0.46 | -128.2 | |
| HEN23 | 5/31/2023 | 1.96 | -1.38 | -132.4 | |
| HEN23 | 5/31/2023 | 1.55 | -1.79 | -127.1 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN25 | 5/31/2023 | 12:53 | 1253 | 15.94 | | 13.5 | 56.3 | 7.17 | 893.9 | 893.9 |
| HEN25 | 5/31/2023 | 12:56 | 1256 | 15.94 | | 13.4 | 56.12 | 7.15 | 885.4 | 885.4 |
| HEN25 | 5/31/2023 | 12:59 | 1259 | 15.94 | | 13.4 | 56.12 | 7.15 | 881.5 | 881.5 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN25 | 5/31/2023 | 2.94 | 9.17 | 34.3 | |
| HEN25 | 5/31/2023 | 2.49 | 0.38 | 34.8 | |
| HEN25 | 5/31/2023 | 2.45 | -1.34 | 36.3 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN26 | 5/31/2023 | 12:35 | 1235 | 16 | | 15 | 59 | 7.1 | 1059.8 | 1059.8 |
| HEN26 | 5/31/2023 | 12:38 | 1238 | 16 | | 14.9 | 58.82 | 7.07 | 1058 | 1058 |
| HEN26 | 5/31/2023 | 12:41 | 1241 | 16 | | 15 | 59 | 7.06 | 1058.7 | 1058.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN26 | 5/31/2023 | 2.58 | -1.65 | 19.6 | |
| HEN26 | 5/31/2023 | 1.75 | -2.66 | 18.3 | |
| HEN26 | 5/31/2023 | 1.42 | -2.77 | 18.3 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN27 | 5/31/2023 | 9:06 | 0906 | 4.14 | | 12 | 53.6 | 6.97 | 1128 | 1128 |
| HEN27 | 5/31/2023 | 9:09 | 0909 | 4.14 | | 11.9 | 53.42 | 6.98 | 1128.4 | 1128.4 |
| HEN27 | 5/31/2023 | 9:12 | 0912 | 4.14 | | 11.9 | 53.42 | 6.98 | 1128 | 1128 |
| HEN27 | 5/31/2023 | 9:15 | 0915 | 4.14 | | 12 | 53.6 | 6.98 | 1128.8 | 1128.8 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN27 | 5/31/2023 | 1.22 | 11.64 | 3.1 | |
| HEN27 | 5/31/2023 | 1.15 | 9.39 | -4.6 | |
| HEN27 | 5/31/2023 | 1.09 | 5.47 | -10.3 | |
| HEN27 | 5/31/2023 | 1.05 | 8.18 | -15.7 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN30 | 5/30/2023 | 1509 | 1509 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN30 | 5/30/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN31 | 5/30/2023 | 1509 | 1509 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN31 | 5/30/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN32 | 5/31/2023 | 9:33 | 0933 | 5.22 | | 11.1 | 51.98 | 6.98 | 1001.2 | 1001.2 |
| HEN32 | 5/31/2023 | 9:36 | 0936 | 5.22 | | 11 | 51.8 | 6.95 | 999.6 | 999.6 |
| HEN32 | 5/31/2023 | 9:39 | 0939 | 5.22 | | 11 | 51.8 | 6.93 | 999 | 999 |
| HEN32 | 5/31/2023 | 9:42 | 0942 | 5.22 | | 11.1 | 51.98 | 6.92 | 997.5 | 997.5 |
| HEN32 | 5/31/2023 | 9:45 | 0945 | 5.22 | | 11 | 51.8 | 6.92 | 997.2 | 997.2 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN32 | 5/31/2023 | 2.69 | 31.45 | 83.2 | |
| HEN32 | 5/31/2023 | 1.9 | 19.9 | 84 | |
| HEN32 | 5/31/2023 | 1.56 | 14.63 | 84.9 | |
| HEN32 | 5/31/2023 | 1.37 | 9.91 | 85.3 | |
| HEN32 | 5/31/2023 | 1.24 | 6.19 | 85.7 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | | |
| Technician | | | | | | | | | | | |
| 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) |
| HEN33 | 5/30/2023 | 1515 | 1515 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN33 | 5/30/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN34 | 5/31/2023 | 10:33 | 1033 | 8.66 | | 12.2 | 53.96 | 7.02 | 1201.8 | 1201.8 |
| HEN34 | 5/31/2023 | 10:36 | 1036 | 8.66 | | 12.2 | 53.96 | 6.94 | 1225.3 | 1225.3 |
| HEN34 | 5/31/2023 | 10:39 | 1039 | 8.66 | | 12.3 | 54.14 | 6.92 | 1247.9 | 1247.9 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN34 | 5/31/2023 | 2.92 | 10.71 | -13 | |
| HEN34 | 5/31/2023 | 1.98 | 4.75 | -64.2 | |
| HEN34 | 5/31/2023 | 1.6 | 1.79 | -82.7 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN35 | 5/31/2023 | 10:03 | 1003 | 8.3 | | 13 | 55.4 | 6.89 | 1663.9 | 1663.9 |
| HEN35 | 5/31/2023 | 10:06 | 1006 | 8.3 | | 12.9 | 55.22 | 6.88 | 1652.8 | 1652.8 |
| HEN35 | 5/31/2023 | 10:09 | 1009 | 8.3 | | 12.9 | 55.22 | 6.88 | 1647.1 | 1647.1 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN35 | 5/31/2023 | 3.18 | 8.32 | 107.4 | |
| HEN35 | 5/31/2023 | 2.04 | 3.93 | 106.1 | |
| HEN35 | 5/31/2023 | 1.6 | 2.18 | 104.8 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN36 | 5/30/2023 | 1528 | 1528 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN36 | 5/30/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN40S | 6/1/2023 | 10:28 | 1028 | 40.54 | | 17 | 62.6 | 7.67 | 805.5 | 805.5 |
| HEN40S | 6/1/2023 | 10:31 | 1031 | 40.54 | | 16.9 | 62.42 | 7.67 | 804.2 | 804.2 |
| HEN40S | 6/1/2023 | 10:34 | 1034 | 40.54 | | 16.9 | 62.42 | 7.68 | 805.7 | 805.7 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN40S | 6/1/2023 | 1.94 | -2.52 | 126.4 | |
| HEN40S | 6/1/2023 | 1.55 | -2.72 | 125.1 | |
| HEN40S | 6/1/2023 | 1.34 | -2.71 | 124.2 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN45S | 6/1/2023 | 11:00 | 1100 | 20.42 | | 19.9 | 67.82 | 6.94 | 1114.4 | 1114.4 |
| HEN45S | 6/1/2023 | 11:03 | 1103 | 20.42 | | 19.9 | 67.82 | 6.94 | 1113.9 | 1113.9 |
| HEN45S | 6/1/2023 | 11:06 | 1106 | 20.42 | | 19.9 | 67.82 | 6.94 | 1114.4 | 1114.4 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN45S | 6/1/2023 | 1.53 | 4.52 | 136.5 | |
| HEN45S | 6/1/2023 | 1.26 | 2.67 | 137.5 | |
| HEN45S | 6/1/2023 | 1.11 | 2.52 | 137.8 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN46 | 5/31/2023 | 10:54 | 1054 | 51.4 | | 16.4 | 61.52 | 7.25 | 818.5 | 818.5 |
| HEN46 | 5/31/2023 | 10:57 | 1057 | 51.4 | | 16.2 | 61.16 | 7.14 | 815.9 | 815.9 |
| HEN46 | 5/31/2023 | 11:00 | 1100 | 51.4 | | 16.1 | 60.98 | 7.1 | 815.3 | 815.3 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN46 | 5/31/2023 | 5.15 | 0.24 | 131.4 | |
| HEN46 | 5/31/2023 | 4.91 | -0.06 | 136.5 | |
| HEN46 | 5/31/2023 | 4.84 | -0.46 | 139.6 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN47 | 5/31/2023 | 9:50 | 0950 | 55.66 | | 18.1 | 64.58 | 6.94 | 868.4 | 868.4 |
| HEN47 | 5/31/2023 | 9:53 | 0953 | 55.66 | | 18.1 | 64.58 | 6.9 | 867.3 | 867.3 |
| HEN47 | 5/31/2023 | 9:56 | 0956 | 55.66 | | 18.1 | 64.58 | 6.89 | 868.3 | 868.3 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN47 | 5/31/2023 | 3.73 | -0.04 | 141.7 | |
| HEN47 | 5/31/2023 | 3.63 | 0.03 | 143.4 | |
| HEN47 | 5/31/2023 | 3.6 | -0.83 | 144.7 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN49 | 5/31/2023 | 12:10 | 1210 | 21.54 | | 14.8 | 58.64 | 7.16 | 1082.6 | 1082.6 |
| HEN49 | 5/31/2023 | 12:13 | 1213 | 21.54 | | 14.8 | 58.64 | 7.07 | 1080.4 | 1080.4 |
| HEN49 | 5/31/2023 | 12:16 | 1216 | 21.54 | | 14.7 | 58.46 | 7.05 | 1079.3 | 1079.3 |
| HEN49 | 5/31/2023 | 12:19 | 1219 | 21.54 | | 14.9 | 58.82 | 7.04 | 1078.8 | 1078.8 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN49 | 5/31/2023 | 5.26 | 6.14 | -68.4 | |
| HEN49 | 5/31/2023 | 2.34 | 20.09 | -39.8 | |
| HEN49 | 5/31/2023 | 1.65 | 23.12 | -27.3 | |
| HEN49 | 5/31/2023 | 1.36 | 21.09 | -19 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN50 | 5/31/2023 | 13:31 | 1331 | 18.25 | | 15.5 | 59.9 | 7.34 | 1055.5 | 1055.5 |
| HEN50 | 5/31/2023 | 13:34 | 1334 | 18.25 | | 15.6 | 60.08 | 7.35 | 1054.7 | 1054.7 |
| HEN50 | 5/31/2023 | 13:37 | 1337 | 18.25 | | 15.5 | 59.9 | 7.35 | 1054.6 | 1054.6 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN50 | 5/31/2023 | 1.48 | 10.75 | 37.6 | |
| HEN50 | 5/31/2023 | 1.29 | 5.59 | 35.2 | |
| HEN50 | 5/31/2023 | 1.17 | 1.85 | 33.5 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN51 | 5/31/2023 | 11:28 | 1128 | 18.5 | | 13 | 55.4 | 7.2 | 1126.5 | 1126.5 |
| HEN51 | 5/31/2023 | 11:31 | 1131 | 18.5 | | 13 | 55.4 | 7.22 | 1126.6 | 1126.6 |
| HEN51 | 5/31/2023 | 11:34 | 1134 | 18.5 | | 12.9 | 55.22 | 7.23 | 1127 | 1127 |
| HEN51 | 5/31/2023 | 11:37 | 1137 | 18.5 | | 12.9 | 55.22 | 7.24 | 1128.8 | 1128.8 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN51 | 5/31/2023 | 2.56 | 9.63 | -121.3 | |
| HEN51 | 5/31/2023 | 1.96 | 8.84 | -128.8 | |
| HEN51 | 5/31/2023 | 1.66 | 6.89 | -133 | |
| HEN51 | 5/31/2023 | 1.5 | 6.08 | -135.3 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN52 | 6/1/2023 | 10:23 | 1023 | 53.89 | | 18.1 | 64.58 | 8.37 | 874.4 | 874.4 |
| HEN52 | 6/1/2023 | 10:26 | 1026 | 53.89 | | 17.4 | 63.32 | 7.77 | 820.1 | 820.1 |
| HEN52 | 6/1/2023 | 10:29 | 1029 | 53.89 | | 17.3 | 63.14 | 7.49 | 816.8 | 816.8 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN52 | 6/1/2023 | 6.13 | 3.09 | 64.1 | |
| HEN52 | 6/1/2023 | 3.85 | 6.07 | 80.1 | |
| HEN52 | 6/1/2023 | 3.71 | 2.82 | 92.2 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN54 | 5/31/2023 | 10:21 | 1021 | 53.23 | | 17.2 | 62.96 | 7.23 | 855.8 | 855.8 |
| HEN54 | 5/31/2023 | 10:24 | 1024 | 53.23 | | 17.2 | 62.96 | 7.11 | 828.3 | 828.3 |
| HEN54 | 5/31/2023 | 10:27 | 1027 | 53.23 | | 17.1 | 62.78 | 7.07 | 827.9 | 827.9 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN54 | 5/31/2023 | 5.9 | 1.43 | 140.7 | |
| HEN54 | 5/31/2023 | 5.73 | 0.45 | 145.4 | |
| HEN54 | 5/31/2023 | 5.71 | -0.33 | 148.6 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN55 | 5/30/2023 | 1438 | 1438 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN55 | 5/30/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HENXPW01 | 6/1/2023 | 8:49 | 0849 | 10.25 | | 16.7 | 62.06 | 11.01 | 1109.1 | 1109.1 |
| HENXPW01 | 6/1/2023 | 8:52 | 0852 | 10.25 | | 16.7 | 62.06 | 10.98 | 1109.8 | 1109.8 |
| HENXPW01 | 6/1/2023 | 8:55 | 0855 | 10.25 | | 16.6 | 61.88 | 10.98 | 1114.3 | 1114.3 |
| HENXPW01 | 6/1/2023 | 8:58 | 0858 | 10.25 | | 16.5 | 61.7 | 10.99 | 1116.4 | 1116.4 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HENXPW01 | 6/1/2023 | 1.54 | 7.68 | -123.4 | |
| HENXPW01 | 6/1/2023 | 1.29 | 2.59 | -147.2 | |
| HENXPW01 | 6/1/2023 | 1.18 | 2.15 | -161.9 | |
| HENXPW01 | 6/1/2023 | 1.1 | 1.99 | -172.4 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HENXPW02 | 6/1/2023 | 9:19 | 0919 | 15.37 | | 16.6 | 61.88 | 11.76 | 3687.5 | 3687.5 |
| HENXPW02 | 6/1/2023 | 9:22 | 0922 | 15.37 | | 16.3 | 61.34 | 11.8 | 3686.2 | 3686.2 |
| HENXPW02 | 6/1/2023 | 9:25 | 0925 | 15.37 | | 16.3 | 61.34 | 11.82 | 3688 | 3688 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HENXPW02 | 6/1/2023 | 2.1 | 4.88 | -53.1 | |
| HENXPW02 | 6/1/2023 | 1.88 | 3.53 | -66.7 | |
| HENXPW02 | 6/1/2023 | 1.57 | 1.35 | -74.7 | |

| Site Sampling Event | HEN-Q2-2023 |
|---|---|
| LIMS Workorder | 23051600 |
| Technician | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HENXPW03 | 6/1/2023 | 9:46 | 0946 | 6.41 | | 15.3 | 59.54 | 11.52 | 1574.7 | 1574.7 |
| HENXPW03 | 6/1/2023 | 9:49 | 0949 | 6.41 | | 15.4 | 59.72 | 11.42 | 1564.2 | 1564.2 |
| HENXPW03 | 6/1/2023 | 9:52 | 0952 | 6.41 | | 15.5 | 59.9 | 11.4 | 1573.1 | 1573.1 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HENXPW03 | 6/1/2023 | 1.95 | 0.56 | -30.6 | |
| HENXPW03 | 6/1/2023 | 1.5 | 0 | -33.5 | |
| HENXPW03 | 6/1/2023 | 1.35 | -0.23 | -35.9 | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HENXSG01 | May-23 | 1403 | 1403 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HENXSG01 | May-23 | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HENYSGILRIVER | 5/30/2023 | 1321 | 1321 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HENYSGILRIVER | 5/30/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| FIELD Blank | 6/1/2023 | 822 | 0822 | | | | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| FIELD Blank | 6/1/2023 | | | | |

| Site Sampling Event | HEN-Q2-2023 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | | | | | | |
| Technician | | | | | | | | | | |
| 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) |
| HEN08 Dup | 6/1/2023 | 8:48 | 0848 | 53.8 | | 13.4 | 56.12 | 6.52 | 1615.4 | 1615.4 |
| HEN08 Dup | 6/1/2023 | 8:51 | 0851 | 53.8 | | 13.3 | 55.94 | 6.53 | 1615.8 | 1615.8 |
| HEN08 Dup | 6/1/2023 | 8:54 | 0854 | 53.8 | | 13.3 | 55.94 | 6.53 | 1616.9 | 1616.9 |

| Site Sampling Event | HEN-Q2-2023 | | | | |
|---|---|---|---|---|---|
| LIMS Workorder | 23051600 | | | | |
| Technician | | | | | |
| Well ID | Date | ODO (mg/L) | Turbidity (NTU) | ORP (mV) | Purge Volume (gal) |
| HEN08 Dup | 6/1/2023 | 2.95 | -2.93 | 169.5 | |
| HEN08 Dup | 6/1/2023 | 2.73 | -2.96 | 168.6 | |
| HEN08 Dup | 6/1/2023 | 2.59 | -3.01 | 167.7 | |

# 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 | 5/31/23 | 8:40 | 22.9 | 7.08 | | | | 1414 | | | | | |
| | | | | | | | | | | | | | |
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| CCV | | 15:57 | 28.7 | 7.09 | | | | 1412 | | | | | |

**** Field Meter ID for Temp, pH & Conductivity : Eco Rental

**** Field Meter ID for (_____) : _____

| | SW846 | Std Methods | | Lot # | | Lot # | | Lot # |
|---|---|---|---|---|---|---|---|---|
| Field Temp SOP 1156 | | 2550 B | pH 4.0 Buffer | WC | Conductivity Std. 1412 | 74610 | _____ Std. | _____ |
| pH in the Field SOP 1152 | 9040B | 4500-H B | pH 7.0 Buffer | WC 230210B | Conductivity Std. _____ | _____ | _____ Std. | _____ |
| Field Cond. SOP 1155 | 9050A | 2510 B | pH 10.0 Buffer | WC 230126C | Conductivity Std. _____ | _____ | _____ Std. | _____ |
| Other: _____ | | | pH LCS/LCSD 7 | WC 221117B | Conductivity LCS/LCSD _____ | _____ | _____ LCS/LCSD _____ | _____ |

| pH Calibration | | Reading |
|---|---|---|
| | 4.00 | 4.00 |
| Date: 5/31/23 | 7.00 | 7.01 |
| Time: 8:30 | 10.00 | 10.02 |

Field Analyst Sig & Date: Juan Carrola 5/31/23
Reviewed By & Date: _____
Reviewed By & Date: _____

| Conductivity Calibration | | | Reading | units |
|---|---|---|---|---|
| _____ | µS | 0-199.9 | _____ | µS |
| 1412 | µS | 0-1999 | 1412 | µS |
| _____ | mS | 0-19.99 | _____ | mS |

Field Analyst Sig & Date: Juan Carrola 5/31/23
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

| | Date | Time | pH | Temp | pH | | | Cond. | | | Units | DO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCS | 5-31-23 | 0831 | 24.1 | 7.09 | 7.09 | | | 1429 | | | | |
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| CCV | 5-31-23 | 1536 | 23.2 | 7.08 | 7.08 | | | 1418 | | | | |

****** 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 | | Conductivity LCS/LCSD | | LCS/LCSD | |

**pH Calibration**

Date: 5-31-23
Time: 0815

| | Reading |
|---|---|
| 4.00 | 4.05 4.01 |
| 7.00 | 7.03 |
| 10.00 | 9.98 |

Field Analyst Sig & Date: [signature] 5-31-23
Reviewed By & Date: _____
Reviewed By & Date: _____

**Conductivity Calibration**

| | | | Reading | units |
|---|---|---|---|---|
| _____ | µS | 0-199.9 | | µS |
| _____ | µS | 0-1999 | 1416 | µS |
| _____ | mS | 0-19.99 | | mS |

Field Analyst Sig & Date: [signature] 5-31-23
Reviewed By & Date: _____
Reviewed By & Date: _____

| _____ | Calibration | Reading |
|---|---|---|
| Std_____ | Units _____ | _____ |
| Std_____ | Units _____ | _____ |
| Std_____ | Units _____ | _____ |

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

Page _____ of _____

**Comments:**

2305160

# 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 | 6/1/23 | 8:21 | 24.3 | 7.10 | | | | 1414 | | | | | |
| | | | | | | | | | | | | | |
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| CCV | | 11:15 | 25.2 | 7.10 | | | | 1417 | | | | | |

**** Field Meter ID for Temp, pH & Conductivity : Eco Rental

**** Field Meter ID for (_____) : _____

| | SW846 | Std Methods | | Lot # | | Lot # | | Lot # |
|---|---|---|---|---|---|---|---|---|
| Field Temp SOP 1156 | | 2550 B | pH 4.0 Buffer | WC | Conductivity Std. 1412 | 74610 | _____ Std. | |
| pH in the Field SOP 1152 | 9040B | 4500-H B | pH 7.0 Buffer | WC 230210B | Conductivity Std. | | _____ Std. | |
| Field Cond. SOP 1155 | 9050A | 2510 B | pH 10.0 Buffer | WC 230126C | Conductivity Std. | | _____ Std. | |
| Other: _____ | | | pH LCS/LCSD 7 | WC 221117B | Conductivity LCS/LCSD | | _____ LCS/LCSD | |

| pH Calibration | | Reading |
|---|---|---|
| Date: 6/1/23 | 4.00 | 4.00 |
| | 7.00 | 7.01 |
| Time: 8:10 | 10.00 | 10.01 |

Field Analyst Sig & Date: Juan Carrola 6/1/23
Reviewed By & Date:
Reviewed By & Date:

| Conductivity Calibration | | | Reading | units |
|---|---|---|---|---|
| | µS | 0-199.9 | | µS |
| 1412 | µS | 0-1999 | 1412 | µS |
| | mS | 0-19.99 | | mS |

Field Analyst Sig & Date: Juan Carrola 6/1/23
Reviewed By & Date:
Reviewed By & Date:

| _____ Calibration | | Reading |
|---|---|---|
| Std_____ | Units _____ | |
| Std_____ | Units _____ | |
| Std_____ | Units _____ | |

Field Analyst Sig & Date:
Reviewed By & Date:
Reviewed By & Date:

Page _____ of _____

**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 | 6-1-23 | 0825 | 25.3 | 7.06 | 7.07 | | | 1413 | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| ccv | 6-1-23 | 1152 | 25.3 | 7.00 | 7.03 | | | 1413 | | | | | |

**** Field Meter ID for Temp, pH & Conductivity : Eco Rental

**** Field Meter ID for (_____) : _____

| | SW846 | Std Methods | | Lot # | | Lot # | | Lot # |
|---|---|---|---|---|---|---|---|---|
| Field Temp SOP 1156 | | 2550 B | pH 4.0 Buffer | WC 230105A | Conductivity Std. 1412 | 74610 | _____ Std. | |
| pH in the Field SOP 1152 | 9040B | 4500-H B | pH 7.0 Buffer | WC 230210B | Conductivity Std. | | _____ Std. | |
| Field Cond. SOP 1155 | 9050A | 2510 B | pH 10.0 Buffer | WC 230126C | Conductivity Std. | | _____ Std. | |
| Other: _____ | | | pH LCS/LCSD 7 | WC 221117B | Conductivity LCS/LCSD | | _____ LCS/LCSD | |

| pH Calibration | | Reading |
|---|---|---|
| Date: 6-1-23 | 4.00 | 4.05 |
| Time: 0813 | 7.00 | 7.04 |
| | 10.00 | 9.96 |

Field Analyst Sig & Date: _____
Reviewed By & Date: _____
Reviewed By & Date: _____

| Conductivity Calibration | | | Reading | units |
|---|---|---|---|---|
| | µS | 0-199.9 | | µS |
| 1412 | µS | 0-1999 | 1391 | µS |
| | mS | 0-19.99 | | mS |

Field Analyst Sig & Date: _____
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:**

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 11/16/23 11:03:39 Revision 1

## JOB DESCRIPTION

HEN-23Q3
HEN_257_803

## JOB NUMBER

500-238579-20

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.



my EOL

# Eurofins Chicago

## 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 Chicago Project Manager.

## Authorization

Generated
11/16/23 11:03:39
Revision 1

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## Job ID: 500-238579-20

### Laboratory: Eurofins Chicago

**Narrative**

**Job Narrative**
**500-238579-20**

**Revision**
The report being provided is a revision of the original report sent on 11/07/23. The report (revision 1) is being revised due to: Correct COC issues. Please remove all "Alkalinity (SM 2320B)" results..

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**Receipt Exceptions**
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).Added to COC as sample #14. Trip Blank was packed in same cooler as sample #13.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC) Samples # 38,39,40 and 41 container labels did not list which set was the Equipment Blank. Set chosen at random and logged. For sample HEN_XPW02_pore received three sets- logged on set as #38 "HEN_XPW02_pore" and two sets as #39"HEN_XPW02_pore_EB". Sample #39 will have double volume.

**Metals**
Method 6020B: The initial low level calibration verification (ICVL) result for batch 735519 was above the upper control limit for Be Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Field Service / Mobile Lab**
Method Field Sampling: "Depth to Water (ft from MP)" value reported is the value recorded in the "WL Reading on Transducer (ft)" column on the SAR-4 form for the following samples: HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_17 (500-238579-59) and HEN_17-FD (500-238579-60).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**General Chemistry**
Method 300.0: The method blank for analytical batch 500-729898 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Methods 300.0: The method blank for analytical batch 500-731549 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 200.7 Rev 4.4 | Metals (ICP) | EPA | EET CHI |
| 6020B | Metals (ICP/MS) | SW846 | EET CHI |
| 7470A | Mercury (CVAA) | SW846 | EET CHI |
| 300.0 | Anions, Ion Chromatography | EPA | EET CHI |
| SM 2320B | Alkalinity | SM | EET CHI |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | EET CHI |
| Field Sampling | Field Sampling | EPA | EET CHI |
| 200.7 | Preparation, Total Recoverable Metals | EPA | EET CHI |
| 3005A | Preparation, Total Recoverable or Dissolved Metals | SW846 | EET CHI |
| 7470A | Preparation, Mercury | SW846 | EET CHI |

**Protocol References:**

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Sample Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Water | 08/23/23 10:10 | 08/24/23 09:38 |
| 500-238579-16 | HEN_13 | Water | 08/23/23 11:25 | 08/24/23 09:38 |
| 500-238579-18 | HEN_46 | Water | 08/23/23 08:55 | 08/24/23 09:38 |
| 500-238579-19 | HEN_47 | Water | 08/23/23 15:30 | 08/24/23 09:38 |
| 500-238579-20 | HEN_54 | Water | 08/23/23 13:50 | 08/24/23 09:38 |
| 500-238579-25 | HEN_52 | Water | 08/24/23 09:40 | 08/25/23 09:32 |
| 500-238579-28 | HEN_07 | Water | 08/24/23 14:00 | 08/25/23 09:32 |
| 500-238579-30 | HEN_08 | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-32 | HEN_08&D | Water | 08/24/23 12:25 | 08/25/23 09:32 |
| 500-238579-34 | HEN_08_FD | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-58 | HEN_16 | Water | 08/28/23 08:35 | 08/28/23 15:00 |
| 500-238579-59 | HEN_17 | Water | 08/28/23 09:40 | 08/28/23 15:00 |
| 500-238579-60 | HEN_17-FD | Water | 08/28/23 09:40 | 08/28/23 15:00 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_12

**Date Collected: 08/23/23 10:10**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-15

**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0093** | | 0.0050 | 0.0020 | mg/L | | 09/28/23 17:00 | 09/29/23 14:51 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Arsenic** | **0.00051** | **J** | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Barium** | **0.060** | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Boron** | **0.10** | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/04/23 23:58 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Calcium** | **73** | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Magnesium** | **30** | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Molybdenum** | **0.017** | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Potassium** | **3.8** | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |
| **Sodium** | **49** | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/04/23 23:58 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 15:37 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:27 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **83** | | 5.0 | 0.58 | mg/L | | | 08/29/23 06:01 | 5 |
| **Fluoride (EPA 300.0)** | **0.30** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 05:46 | 1 |
| **Sulfate (EPA 300.0)** | **65** | | 5.0 | 1.0 | mg/L | | | 08/29/23 06:01 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **220** | | 5.0 | 3.7 | mg/L | | | 08/28/23 18:48 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 18:48 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **500** | | 10 | 4.3 | mg/L | | | 08/28/23 21:13 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water (ft from MP)** | **50.27** | | | | ft | | | 08/23/23 10:10 | 1 |
| **Field pH** | **7.30** | | | | SU | | | 08/23/23 10:10 | 1 |
| **Field Temperature** | **19.5** | | | | Degrees C | | | 08/23/23 10:10 | 1 |
| **Oxidation Reduction Potential** | **154.1** | | | | millivolts | | | 08/23/23 10:10 | 1 |
| **Oxygen, Dissolved** | **1.88** | | | | mg/L | | | 08/23/23 10:10 | 1 |
| **Specific Conductance** | **558** | | | | umhos/cm | | | 08/23/23 10:10 | 1 |
| **Turbidity** | **3.0** | | | | NTU | | | 08/23/23 10:10 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_13

**Date Collected: 08/23/23 11:25**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-16

**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.011** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 18:49 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Arsenic** | **0.00067** | **J** | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Barium** | **0.044** | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Boron** | **0.13** | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/05/23 00:09 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Calcium** | **75** | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Magnesium** | **31** | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Molybdenum** | **0.013** | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Potassium** | **4.0** | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |
| **Sodium** | **44** | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/05/23 00:09 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 15:47 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:30 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **81** | | 5.0 | 0.58 | mg/L | | | 08/29/23 06:31 | 5 |
| **Fluoride (EPA 300.0)** | **0.27** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 06:16 | 1 |
| **Sulfate (EPA 300.0)** | **68** | | 5.0 | 1.0 | mg/L | | | 08/29/23 06:31 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **220** | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:19 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:19 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **480** | | 10 | 4.3 | mg/L | | | 08/28/23 21:15 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water (ft from MP)** | **51.4** | | | | ft | | | 08/23/23 11:25 | 1 |
| **Field pH** | **7.39** | | | | SU | | | 08/23/23 11:25 | 1 |
| **Field Temperature** | **21.4** | | | | Degrees C | | | 08/23/23 11:25 | 1 |
| **Oxidation Reduction Potential** | **150.2** | | | | millivolts | | | 08/23/23 11:25 | 1 |
| **Oxygen, Dissolved** | **2.10** | | | | mg/L | | | 08/23/23 11:25 | 1 |
| **Specific Conductance** | **563** | | | | umhos/cm | | | 08/23/23 11:25 | 1 |
| **Turbidity** | **3.05** | | | | NTU | | | 08/23/23 11:25 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_46

**Date Collected: 08/23/23 08:55**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-18

**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0087** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:06 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Arsenic** | **0.00051** | **J** | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Barium** | **0.065** | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Boron** | **0.11** | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/05/23 00:13 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Calcium** | **74** | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Magnesium** | **30** | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Molybdenum** | **0.019** | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Potassium** | **4.1** | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |
| **Sodium** | **49** | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/05/23 00:13 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 15:51 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:32 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **84** | **B** | 5.0 | 0.58 | mg/L | | | 08/29/23 16:32 | 5 |
| **Fluoride (EPA 300.0)** | **0.31** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 15:46 | 1 |
| **Sulfate (EPA 300.0)** | **87** | | 5.0 | 1.0 | mg/L | | | 08/29/23 16:32 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **200** | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:28 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:28 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **460** | | 10 | 4.3 | mg/L | | | 08/28/23 21:18 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **7.33** | | | | SU | | | 08/23/23 08:55 | 1 |
| **Field Temperature** | **20.9** | | | | Degrees C | | | 08/23/23 08:55 | 1 |
| **Oxidation Reduction Potential** | **142.2** | | | | millivolts | | | 08/23/23 08:55 | 1 |
| **Oxygen, Dissolved** | **1.85** | | | | mg/L | | | 08/23/23 08:55 | 1 |
| **Specific Conductance** | **559** | | | | umhos/cm | | | 08/23/23 08:55 | 1 |
| **Turbidity** | **18.98** | | | | NTU | | | 08/23/23 08:55 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_47
**Date Collected: 08/23/23 15:30**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-19
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.011** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:10 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Arsenic** | **0.00048** | **J** | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Barium** | **0.089** | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Boron** | **0.47** | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/05/23 00:17 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Calcium** | **89** | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Magnesium** | **30** | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Molybdenum** | **0.026** | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Potassium** | **4.9** | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |
| **Sodium** | **60** | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/05/23 00:17 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 15:54 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:34 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **97** | **B** | 2.0 | 0.23 | mg/L | | | 08/29/23 17:02 | 2 |
| **Fluoride (EPA 300.0)** | **0.35** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 16:47 | 1 |
| **Sulfate (EPA 300.0)** | **80** | | 2.0 | 0.41 | mg/L | | | 08/29/23 17:02 | 2 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **270** | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:37 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:37 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **520** | | 10 | 4.3 | mg/L | | | 08/28/23 21:20 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **7.04** | | | | SU | | | 08/23/23 15:30 | 1 |
| **Field Temperature** | **21.5** | | | | Degrees C | | | 08/23/23 15:30 | 1 |
| **Oxidation Reduction Potential** | **155.3** | | | | millivolts | | | 08/23/23 15:30 | 1 |
| **Oxygen, Dissolved** | **1.52** | | | | mg/L | | | 08/23/23 15:30 | 1 |
| **Specific Conductance** | **639** | | | | umhos/cm | | | 08/23/23 15:30 | 1 |
| **Turbidity** | **3.20** | | | | NTU | | | 08/23/23 15:30 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_54
**Date Collected: 08/23/23 13:50**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-20
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.011** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:14 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Arsenic** | **0.00059** | **J** | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Barium** | **0.053** | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Boron** | **0.23** | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/05/23 00:21 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Calcium** | **77** | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Magnesium** | **31** | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Molybdenum** | **0.030** | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Potassium** | **4.3** | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |
| **Sodium** | **48** | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/05/23 00:21 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 15:57 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:36 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **84** | **B** | 5.0 | 0.58 | mg/L | | | 08/29/23 17:33 | 5 |
| **Fluoride (EPA 300.0)** | **0.33** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 17:17 | 1 |
| **Sulfate (EPA 300.0)** | **85** | | 5.0 | 1.0 | mg/L | | | 08/29/23 17:33 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **210** | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:47 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:47 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **510** | | 10 | 4.3 | mg/L | | | 08/28/23 21:23 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **7.30** | | | | SU | | | 08/23/23 13:50 | 1 |
| **Field Temperature** | **22.6** | | | | Degrees C | | | 08/23/23 13:50 | 1 |
| **Oxidation Reduction Potential** | **141.0** | | | | millivolts | | | 08/23/23 13:50 | 1 |
| **Oxygen, Dissolved** | **2.31** | | | | mg/L | | | 08/23/23 13:50 | 1 |
| **Specific Conductance** | **576** | | | | umhos/cm | | | 08/23/23 13:50 | 1 |
| **Turbidity** | **13.82** | | | | NTU | | | 08/23/23 13:50 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_52
**Date Collected: 08/24/23 09:40**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-25
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0096** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:27 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Arsenic** | **0.00053** | **J** | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Barium** | **0.091** | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Boron** | **0.16** | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/05/23 00:24 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Calcium** | **85** | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Magnesium** | **30** | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Molybdenum** | **0.013** | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Potassium** | **5.3** | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |
| **Sodium** | **59** | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/05/23 00:24 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 16:01 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.000085** | **J** | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:42 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **88** | **B** | 5.0 | 0.58 | mg/L | | | 08/29/23 19:34 | 5 |
| **Fluoride (EPA 300.0)** | **0.34** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 18:48 | 1 |
| **Sulfate (EPA 300.0)** | **62** | | 5.0 | 1.0 | mg/L | | | 08/29/23 19:34 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **260** | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:07 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:07 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **520** | | 10 | 4.3 | mg/L | | | 08/28/23 21:31 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **7.04** | | | | SU | | | 08/24/23 09:40 | 1 |
| **Field Temperature** | **24.0** | | | | Degrees C | | | 08/24/23 09:40 | 1 |
| **Oxidation Reduction Potential** | **145.8** | | | | millivolts | | | 08/24/23 09:40 | 1 |
| **Oxygen, Dissolved** | **1.96** | | | | mg/L | | | 08/24/23 09:40 | 1 |
| **Specific Conductance** | **614** | | | | umhos/cm | | | 08/24/23 09:40 | 1 |
| **Turbidity** | **4.08** | | | | NTU | | | 08/24/23 09:40 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_07
**Date Collected: 08/24/23 14:00**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-28
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0099** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:31 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Arsenic** | **0.00065** | **J B** | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Barium** | **0.12** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Boron** | **0.067** | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Calcium** | **94** | **B** | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Cobalt** | **0.036** | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Magnesium** | **32** | | 0.20 | 0.049 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| **Potassium** | **2.7** | | 0.50 | 0.11 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:51 | 1 |
| **Sodium** | **68** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/10/23 12:10 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:49 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **51** | | 5.0 | 0.58 | mg/L | | | 08/29/23 21:35 | 5 |
| **Fluoride (EPA 300.0)** | **0.24** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 21:20 | 1 |
| **Sulfate (EPA 300.0)** | **67** | | 5.0 | 1.0 | mg/L | | | 08/29/23 21:35 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **390** | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:36 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:36 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **640** | | 10 | 4.3 | mg/L | | | 08/30/23 11:27 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water (ft from MP)** | **68.39** | | | | ft | | | 08/24/23 14:00 | 1 |
| **Field pH** | **6.91** | | | | SU | | | 08/24/23 14:00 | 1 |
| **Field Temperature** | **13.8** | | | | Degrees C | | | 08/24/23 14:00 | 1 |
| **Oxidation Reduction Potential** | **179.9** | | | | millivolts | | | 08/24/23 14:00 | 1 |
| **Oxygen, Dissolved** | **4.15** | | | | mg/L | | | 08/24/23 14:00 | 1 |
| **Specific Conductance** | **699** | | | | umhos/cm | | | 08/24/23 14:00 | 1 |
| **Turbidity** | **3.55** | | | | NTU | | | 08/24/23 14:00 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_08
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-30
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.014** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:35 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Arsenic** | **0.00092** | **J B** | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Barium** | **0.12** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Boron** | **0.070** | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Cadmium** | **0.00045** | **J** | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Calcium** | **160** | **B** | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Cobalt** | **0.0036** | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Lead** | **0.00042** | **J** | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Magnesium** | **41** | | 0.20 | 0.049 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| **Potassium** | **7.7** | | 0.50 | 0.11 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:55 | 1 |
| **Sodium** | **120** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:38 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 07:02 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **240** | | 10 | 1.2 | mg/L | | | 08/29/23 22:36 | 10 |
| **Fluoride (EPA 300.0)** | **0.19** | **J** | 1.0 | 0.19 | mg/L | | | 08/29/23 21:50 | 1 |
| **Sulfate (EPA 300.0)** | **100** | | 10 | 2.1 | mg/L | | | 08/29/23 22:36 | 10 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **500** | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:45 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:45 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **1100** | | 10 | 4.3 | mg/L | | | 08/30/23 11:30 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **6.72** | | | | SU | | | 08/24/23 15:10 | 1 |
| **Field Temperature** | **14.7** | | | | Degrees C | | | 08/24/23 15:10 | 1 |
| **Oxidation Reduction Potential** | **188.6** | | | | millivolts | | | 08/24/23 15:10 | 1 |
| **Oxygen, Dissolved** | **1.16** | | | | mg/L | | | 08/24/23 15:10 | 1 |
| **Specific Conductance** | **1241** | | | | umhos/cm | | | 08/24/23 15:10 | 1 |
| **Turbidity** | **3.49** | | | | NTU | | | 08/24/23 15:10 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_08&D

**Date Collected: 08/24/23 12:25**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-32

**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.014** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:40 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Arsenic** | **0.0011** | **B** | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Barium** | **0.12** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Boron** | **0.051** | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Cadmium** | **0.00023** | **J** | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Calcium** | **200** | **B** | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Cobalt** | **0.0032** | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Lead** | **0.00019** | **J** | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Magnesium** | **56** | | 0.20 | 0.049 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| **Potassium** | **2.9** | | 0.50 | 0.11 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:58 | 1 |
| **Sodium** | **130** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:41 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 07:04 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **310** | | 10 | 1.2 | mg/L | | | 08/29/23 23:06 | 10 |
| Fluoride (EPA 300.0) | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 22:51 | 1 |
| **Sulfate (EPA 300.0)** | **170** | | 10 | 2.1 | mg/L | | | 08/29/23 23:06 | 10 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **500** | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:56 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 16:56 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **1400** | | 10 | 4.3 | mg/L | | | 08/30/23 11:33 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **6.59** | | | | SU | | | 08/24/23 12:25 | 1 |
| **Field Temperature** | **17.3** | | | | Degrees C | | | 08/24/23 12:25 | 1 |
| **Oxidation Reduction Potential** | **192.0** | | | | millivolts | | | 08/24/23 12:25 | 1 |
| **Oxygen, Dissolved** | **0.63** | | | | mg/L | | | 08/24/23 12:25 | 1 |
| **Specific Conductance** | **1435** | | | | umhos/cm | | | 08/24/23 12:25 | 1 |
| **Turbidity** | **4.32** | | | | NTU | | | 08/24/23 12:25 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_08_FD

**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-34

**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.014** | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:44 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Arsenic** | **0.00091** | **J B** | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Barium** | **0.12** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Boron** | **0.055** | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Cadmium** | **0.00044** | **J** | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Calcium** | **160** | **B** | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Cobalt** | **0.0036** | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Lead** | **0.00039** | **J** | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Magnesium** | **42** | | 0.20 | 0.049 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| **Potassium** | **7.8** | | 0.50 | 0.11 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 23:01 | 1 |
| **Sodium** | **120** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:45 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 07:06 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **230** | | 10 | 1.2 | mg/L | | | 08/29/23 23:37 | 10 |
| Fluoride (EPA 300.0) | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 23:21 | 1 |
| **Sulfate (EPA 300.0)** | **110** | | 10 | 2.1 | mg/L | | | 08/29/23 23:37 | 10 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **500** | | 5.0 | 3.7 | mg/L | | | 08/30/23 17:06 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 17:06 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **1100** | | 10 | 4.3 | mg/L | | | 08/30/23 11:36 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Field pH** | **6.72** | | | | SU | | | 08/24/23 15:10 | 1 |
| **Field Temperature** | **14.7** | | | | Degrees C | | | 08/24/23 15:10 | 1 |
| **Oxidation Reduction Potential** | **188.6** | | | | millivolts | | | 08/24/23 15:10 | 1 |
| **Oxygen, Dissolved** | **1.16** | | | | mg/L | | | 08/24/23 15:10 | 1 |
| **Specific Conductance** | **1241** | | | | umhos/cm | | | 08/24/23 15:10 | 1 |
| **Turbidity** | **3.49** | | | | NTU | | | 08/24/23 15:10 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_16
**Date Collected: 08/28/23 08:35**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-58
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0076** | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 19:33 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Arsenic** | **0.00065** | **J B** | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Barium** | **0.077** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Boron** | **0.11** | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Calcium** | **73** | **B** | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Magnesium** | **25** | | 0.20 | 0.049 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Molybdenum** | **0.010** | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| **Potassium** | **4.7** | | 0.50 | 0.11 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/07/23 00:11 | 1 |
| **Sodium** | **51** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 08:58 | 10/05/23 04:19 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/10/23 12:37 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.00013** | **J** | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 08:10 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **81** | | 5.0 | 0.58 | mg/L | | | 08/30/23 18:06 | 5 |
| **Fluoride (EPA 300.0)** | **0.31** | **J** | 1.0 | 0.19 | mg/L | | | 08/30/23 17:51 | 1 |
| **Sulfate (EPA 300.0)** | **56** | | 5.0 | 1.0 | mg/L | | | 08/30/23 18:06 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **230** | | 5.0 | 3.7 | mg/L | | | 08/31/23 18:25 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/31/23 18:25 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **450** | | 10 | 4.3 | mg/L | | | 08/31/23 23:12 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water (ft from MP)** | **53.9** | | | | ft | | | 08/28/23 08:35 | 1 |
| **Field pH** | **7.23** | | | | SU | | | 08/28/23 08:35 | 1 |
| **Field Temperature** | **22.8** | | | | Degrees C | | | 08/28/23 08:35 | 1 |
| **Oxidation Reduction Potential** | **122.7** | | | | millivolts | | | 08/28/23 08:35 | 1 |
| **Oxygen, Dissolved** | **0.37** | | | | mg/L | | | 08/28/23 08:35 | 1 |
| **Specific Conductance** | **556** | | | | umhos/cm | | | 08/28/23 08:35 | 1 |
| **Turbidity** | **3.99** | | | | NTU | | | 08/28/23 08:35 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_17
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-59
**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0064** | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 19:42 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| **Arsenic** | **0.00057** | **J** | 0.0010 | 0.00023 | mg/L | | 09/01/23 09:05 | 10/04/23 22:08 | 1 |
| **Barium** | **0.072** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 09:05 | 10/04/23 22:08 | 1 |
| **Boron** | **0.076** | | 0.050 | 0.013 | mg/L | | 09/01/23 09:05 | 10/04/23 22:08 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| **Calcium** | **58** | | 0.20 | 0.044 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| **Magnesium** | **26** | | 0.20 | 0.049 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| **Molybdenum** | **0.0071** | | 0.0050 | 0.0025 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| **Potassium** | **4.4** | | 0.50 | 0.11 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |
| **Sodium** | **55** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 09:05 | 10/04/23 22:08 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 09:05 | 09/05/23 19:28 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.000087** | **J** | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 08:12 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **80** | | 5.0 | 0.58 | mg/L | | | 08/30/23 18:37 | 5 |
| **Fluoride (EPA 300.0)** | **0.36** | **J** | 1.0 | 0.19 | mg/L | | | 08/30/23 18:21 | 1 |
| **Sulfate (EPA 300.0)** | **58** | | 5.0 | 1.0 | mg/L | | | 08/30/23 18:37 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **190** | | 5.0 | 3.7 | mg/L | | | 08/31/23 18:35 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/31/23 18:35 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **420** | | 10 | 4.3 | mg/L | | | 08/31/23 23:19 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water (ft from MP)** | **56.12** | | | | ft | | | 08/28/23 09:40 | 1 |
| **Field pH** | **7.34** | | | | SU | | | 08/28/23 09:40 | 1 |
| **Field Temperature** | **22.4** | | | | Degrees C | | | 08/28/23 09:40 | 1 |
| **Oxidation Reduction Potential** | **148.2** | | | | millivolts | | | 08/28/23 09:40 | 1 |
| **Oxygen, Dissolved** | **5.76** | | | | mg/L | | | 08/28/23 09:40 | 1 |
| **Specific Conductance** | **506** | | | | umhos/cm | | | 08/28/23 09:40 | 1 |
| **Turbidity** | **4.02** | | | | NTU | | | 08/28/23 09:40 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_17-FD

**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-60

**Matrix: Water**

### Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lithium** | **0.0064** | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 19:50 | 1 |

### Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| **Arsenic** | **0.00064** | **J** | 0.0010 | 0.00023 | mg/L | | 09/01/23 09:05 | 10/04/23 22:16 | 1 |
| **Barium** | **0.072** | | 0.0025 | 0.00073 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 09:05 | 10/04/23 22:16 | 1 |
| **Boron** | **0.082** | | 0.050 | 0.013 | mg/L | | 09/01/23 09:05 | 10/04/23 22:16 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| **Calcium** | **59** | | 0.20 | 0.044 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| **Magnesium** | **27** | | 0.20 | 0.049 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| **Molybdenum** | **0.0074** | | 0.0050 | 0.0025 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| **Potassium** | **4.5** | | 0.50 | 0.11 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |
| **Sodium** | **56** | **B** | 0.20 | 0.077 | mg/L | | 09/01/23 09:05 | 10/04/23 22:16 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 09:05 | 09/05/23 19:35 | 1 |

### Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.000097** | **J** | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 08:22 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride (EPA 300.0)** | **80** | | 5.0 | 0.58 | mg/L | | | 08/30/23 19:37 | 5 |
| **Fluoride (EPA 300.0)** | **0.36** | **J** | 1.0 | 0.19 | mg/L | | | 08/30/23 19:22 | 1 |
| **Sulfate (EPA 300.0)** | **57** | | 5.0 | 1.0 | mg/L | | | 08/30/23 19:37 | 5 |
| **Bicarbonate Alkalinity as CaCO3 (SM 2320B)** | **190** | | 5.0 | 3.7 | mg/L | | | 08/31/23 18:44 | 1 |
| Carbonate Alkalinity as CaCO3 (SM 2320B) | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/31/23 18:44 | 1 |
| **Total Dissolved Solids (SM 2540C)** | **430** | | 10 | 4.3 | mg/L | | | 08/31/23 23:25 | 1 |

### Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Depth to Water (ft from MP)** | **56.12** | | | | ft | | | 08/28/23 09:40 | 1 |
| **Field pH** | **7.34** | | | | SU | | | 08/28/23 09:40 | 1 |
| **Field Temperature** | **22.4** | | | | Degrees C | | | 08/28/23 09:40 | 1 |
| **Oxidation Reduction Potential** | **148.2** | | | | millivolts | | | 08/28/23 09:40 | 1 |
| **Oxygen, Dissolved** | **5.76** | | | | mg/L | | | 08/28/23 09:40 | 1 |
| **Specific Conductance** | **506** | | | | umhos/cm | | | 08/28/23 09:40 | 1 |
| **Turbidity** | **4.02** | | | | NTU | | | 08/28/23 09:40 | 1 |

# Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Qualifiers

### Metals

| Qualifier | Qualifier Description |
|---|---|
| ^1+ | Initial Calibration Verification (ICV) is outside acceptance limits, high biased. |
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## 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 |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Metals

### Prep Batch: 729866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total Recoverable | Water | 3005A | |
| 500-238579-16 | HEN_13 | Total Recoverable | Water | 3005A | |
| 500-238579-18 | HEN_46 | Total Recoverable | Water | 3005A | |
| 500-238579-19 | HEN_47 | Total Recoverable | Water | 3005A | |
| 500-238579-20 | HEN_54 | Total Recoverable | Water | 3005A | |
| 500-238579-25 | HEN_52 | Total Recoverable | Water | 3005A | |
| MB 500-729866/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-729866/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

### Prep Batch: 730135

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total/NA | Water | 7470A | |
| 500-238579-16 | HEN_13 | Total/NA | Water | 7470A | |
| 500-238579-18 | HEN_46 | Total/NA | Water | 7470A | |
| 500-238579-19 | HEN_47 | Total/NA | Water | 7470A | |
| 500-238579-20 | HEN_54 | Total/NA | Water | 7470A | |
| 500-238579-25 | HEN_52 | Total/NA | Water | 7470A | |
| 500-238579-28 | HEN_07 | Total/NA | Water | 7470A | |
| MB 500-730135/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730135/13-A | Lab Control Sample | Total/NA | Water | 7470A | |

### Analysis Batch: 730327

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total/NA | Water | 7470A | 730135 |
| 500-238579-16 | HEN_13 | Total/NA | Water | 7470A | 730135 |
| 500-238579-18 | HEN_46 | Total/NA | Water | 7470A | 730135 |
| 500-238579-19 | HEN_47 | Total/NA | Water | 7470A | 730135 |
| 500-238579-20 | HEN_54 | Total/NA | Water | 7470A | 730135 |
| 500-238579-25 | HEN_52 | Total/NA | Water | 7470A | 730135 |
| 500-238579-28 | HEN_07 | Total/NA | Water | 7470A | 730135 |
| MB 500-730135/12-A | Method Blank | Total/NA | Water | 7470A | 730135 |
| LCS 500-730135/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730135 |

### Prep Batch: 730358

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-30 | HEN_08 | Total/NA | Water | 7470A | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 7470A | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 7470A | |
| MB 500-730358/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730358/13-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 500-238579-G-39-D MS | 500-238579-G-39-D MS | Total/NA | Water | 7470A | |
| 500-238579-G-39-E MSD | 500-238579-G-39-E MSD | Total/NA | Water | 7470A | |
| 500-238579-G-39-C DU | 500-238579-G-39-C DU | Total/NA | Water | 7470A | |

### Prep Batch: 730528

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 3005A | |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 3005A | |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 3005A | |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 3005A | |
| 500-238579-58 | HEN_16 | Total Recoverable | Water | 3005A | |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Metals (Continued)

### Prep Batch: 730528 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

### Prep Batch: 730537

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-59 | HEN_17 | Total Recoverable | Water | 3005A | |
| 500-238579-60 | HEN_17-FD | Total Recoverable | Water | 3005A | |
| MB 500-730537/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-730537/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

### Analysis Batch: 730570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-30 | HEN_08 | Total/NA | Water | 7470A | 730358 |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 7470A | 730358 |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 7470A | 730358 |
| MB 500-730358/12-A | Method Blank | Total/NA | Water | 7470A | 730358 |
| LCS 500-730358/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730358 |
| 500-238579-G-39-D MS | 500-238579-G-39-D MS | Total/NA | Water | 7470A | 730358 |
| 500-238579-G-39-E MSD | 500-238579-G-39-E MSD | Total/NA | Water | 7470A | 730358 |
| 500-238579-G-39-C DU | 500-238579-G-39-C DU | Total/NA | Water | 7470A | 730358 |

### Prep Batch: 730985

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total/NA | Water | 7470A | |
| 500-238579-59 | HEN_17 | Total/NA | Water | 7470A | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | 7470A | |
| MB 500-730985/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730985/13-A | Lab Control Sample | Total/NA | Water | 7470A | |

### Analysis Batch: 731002

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-16 | HEN_13 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-18 | HEN_46 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-19 | HEN_47 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-20 | HEN_54 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-25 | HEN_52 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-59 | HEN_17 | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-60 | HEN_17-FD | Total Recoverable | Water | 6020B | 730537 |
| MB 500-729866/1-A | Method Blank | Total Recoverable | Water | 6020B | 729866 |
| MB 500-730537/1-A | Method Blank | Total Recoverable | Water | 6020B | 730537 |
| LCS 500-729866/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 729866 |
| LCS 500-730537/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730537 |

### Analysis Batch: 731203

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total/NA | Water | 7470A | 730985 |
| 500-238579-59 | HEN_17 | Total/NA | Water | 7470A | 730985 |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | 7470A | 730985 |
| MB 500-730985/12-A | Method Blank | Total/NA | Water | 7470A | 730985 |
| LCS 500-730985/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730985 |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Metals

### Prep Batch: 733239

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-16 | HEN_13 | Total Recoverable | Water | 200.7 | |
| 500-238579-18 | HEN_46 | Total Recoverable | Water | 200.7 | |
| 500-238579-19 | HEN_47 | Total Recoverable | Water | 200.7 | |
| 500-238579-20 | HEN_54 | Total Recoverable | Water | 200.7 | |
| 500-238579-25 | HEN_52 | Total Recoverable | Water | 200.7 | |
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 200.7 | |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 200.7 | |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 200.7 | |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 200.7 | |
| MB 500-733239/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 500-733239/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |
| 500-238579-16 MS | HEN_13 | Total Recoverable | Water | 200.7 | |
| 500-238579-16 DU | HEN_13 | Total Recoverable | Water | 200.7 | |

### Prep Batch: 733585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total Recoverable | Water | 200.7 | |
| 500-238579-59 | HEN_17 | Total Recoverable | Water | 200.7 | |
| 500-238579-60 | HEN_17-FD | Total Recoverable | Water | 200.7 | |
| MB 500-733585/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 500-733585/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |

### Analysis Batch: 734023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-16 | HEN_13 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-18 | HEN_46 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-19 | HEN_47 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-20 | HEN_54 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-25 | HEN_52 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| MB 500-733239/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| LCS 500-733239/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-16 MS | HEN_13 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-16 DU | HEN_13 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |

### Analysis Batch: 734227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| 500-238579-59 | HEN_17 | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| 500-238579-60 | HEN_17-FD | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| MB 500-733585/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| LCS 500-733585/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |

### Prep Batch: 734532

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total Recoverable | Water | 200.7 | |
| MB 500-734532/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 500-734532/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Metals

### Analysis Batch: 734888

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total Recoverable | Water | 200.7 Rev 4.4 | 734532 |
| MB 500-734532/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 734532 |
| LCS 500-734532/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 734532 |

### Analysis Batch: 735519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-16 | HEN_13 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-18 | HEN_46 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-19 | HEN_47 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-20 | HEN_54 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-25 | HEN_52 | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-58 | HEN_16 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-59 | HEN_17 | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-60 | HEN_17-FD | Total Recoverable | Water | 6020B | 730537 |
| MB 500-729866/1-A | Method Blank | Total Recoverable | Water | 6020B | 729866 |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 6020B | 730528 |
| MB 500-730537/1-A | Method Blank | Total Recoverable | Water | 6020B | 730537 |
| LCS 500-729866/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 729866 |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730528 |
| LCS 500-730537/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730537 |

### Analysis Batch: 736032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-58 | HEN_16 | Total Recoverable | Water | 6020B | 730528 |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 6020B | 730528 |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730528 |

### Analysis Batch: 736227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 6020B | 730528 |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 6020B | 730528 |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730528 |

### Analysis Batch: 736355

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-58 | HEN_16 | Total Recoverable | Water | 6020B | 730528 |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## General Chemistry

### Analysis Batch: 729689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total/NA | Water | 300.0 | |
| 500-238579-15 | HEN_12 | Total/NA | Water | 300.0 | |
| 500-238579-16 | HEN_13 | Total/NA | Water | 300.0 | |
| 500-238579-16 | HEN_13 | Total/NA | Water | 300.0 | |
| MB 500-729689/34 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 500-729689/35 | Lab Control Sample | Total/NA | Water | 300.0 | |

### Analysis Batch: 729794

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total/NA | Water | SM 2540C | |
| 500-238579-16 | HEN_13 | Total/NA | Water | SM 2540C | |
| 500-238579-18 | HEN_46 | Total/NA | Water | SM 2540C | |
| 500-238579-19 | HEN_47 | Total/NA | Water | SM 2540C | |
| 500-238579-20 | HEN_54 | Total/NA | Water | SM 2540C | |
| 500-238579-25 | HEN_52 | Total/NA | Water | SM 2540C | |
| MB 500-729794/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-729794/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

### Analysis Batch: 729808

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total/NA | Water | SM 2320B | |
| 500-238579-16 | HEN_13 | Total/NA | Water | SM 2320B | |
| 500-238579-18 | HEN_46 | Total/NA | Water | SM 2320B | |
| 500-238579-19 | HEN_47 | Total/NA | Water | SM 2320B | |
| 500-238579-20 | HEN_54 | Total/NA | Water | SM 2320B | |
| MB 500-729808/28 | Method Blank | Total/NA | Water | SM 2320B | |
| MB 500-729808/3 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 500-729808/29 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| LCS 500-729808/4 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| 500-238579-15 DU | HEN_12 | Total/NA | Water | SM 2320B | |

### Analysis Batch: 729898

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-18 | HEN_46 | Total/NA | Water | 300.0 | |
| 500-238579-18 | HEN_46 | Total/NA | Water | 300.0 | |
| 500-238579-19 | HEN_47 | Total/NA | Water | 300.0 | |
| 500-238579-19 | HEN_47 | Total/NA | Water | 300.0 | |
| 500-238579-20 | HEN_54 | Total/NA | Water | 300.0 | |
| 500-238579-20 | HEN_54 | Total/NA | Water | 300.0 | |
| 500-238579-25 | HEN_52 | Total/NA | Water | 300.0 | |
| 500-238579-25 | HEN_52 | Total/NA | Water | 300.0 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | 300.0 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | 300.0 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | 300.0 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | 300.0 | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 300.0 | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 300.0 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 300.0 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 300.0 | |
| MB 500-729898/3 | Method Blank | Total/NA | Water | 300.0 | |
| MB 500-729898/44 | Method Blank | Total/NA | Water | 300.0 | |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## General Chemistry (Continued)

### Analysis Batch: 729898 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 500-729898/4 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCS 500-729898/45 | Lab Control Sample | Total/NA | Water | 300.0 | |

### Analysis Batch: 730129

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-28 | HEN_07 | Total/NA | Water | SM 2540C | |
| 500-238579-30 | HEN_08 | Total/NA | Water | SM 2540C | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | SM 2540C | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | SM 2540C | |
| MB 500-730129/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-730129/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 500-238579-I-41 DU | 500-238579-I-41 DU | Total/NA | Water | SM 2540C | |

### Analysis Batch: 730144

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total/NA | Water | 300.0 | |
| 500-238579-58 | HEN_16 | Total/NA | Water | 300.0 | |
| 500-238579-59 | HEN_17 | Total/NA | Water | 300.0 | |
| 500-238579-59 | HEN_17 | Total/NA | Water | 300.0 | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | 300.0 | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | 300.0 | |
| MB 500-730144/3 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 500-730144/4 | Lab Control Sample | Total/NA | Water | 300.0 | |

### Analysis Batch: 730242

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-25 | HEN_52 | Total/NA | Water | SM 2320B | |
| 500-238579-28 | HEN_07 | Total/NA | Water | SM 2320B | |
| 500-238579-30 | HEN_08 | Total/NA | Water | SM 2320B | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | SM 2320B | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | SM 2320B | |
| MB 500-730242/3 | Method Blank | Total/NA | Water | SM 2320B | |
| LCS 500-730242/4 | Lab Control Sample | Total/NA | Water | SM 2320B | |

### Analysis Batch: 730463

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total/NA | Water | SM 2540C | |
| 500-238579-59 | HEN_17 | Total/NA | Water | SM 2540C | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | SM 2540C | |
| MB 500-730463/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-730463/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 500-238579-58 MS | HEN_16 | Total/NA | Water | SM 2540C | |
| 500-238579-58 DU | HEN_16 | Total/NA | Water | SM 2540C | |
| 500-238579-59 DU | HEN_17 | Total/NA | Water | SM 2540C | |

### Analysis Batch: 730652

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-58 | HEN_16 | Total/NA | Water | SM 2320B | |
| 500-238579-59 | HEN_17 | Total/NA | Water | SM 2320B | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | SM 2320B | |
| MB 500-730652/3 | Method Blank | Total/NA | Water | SM 2320B | |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## General Chemistry (Continued)

### Analysis Batch: 730652 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 500-730652/4 | Lab Control Sample | Total/NA | Water | SM 2320B | |
| 500-238579-I-37 DU | 500-238579-I-37 DU | Total/NA | Water | SM 2320B | |

## Field Service / Mobile Lab

### Analysis Batch: 731893

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-15 | HEN_12 | Total/NA | Water | Field Sampling | |
| 500-238579-16 | HEN_13 | Total/NA | Water | Field Sampling | |
| 500-238579-18 | HEN_46 | Total/NA | Water | Field Sampling | |
| 500-238579-19 | HEN_47 | Total/NA | Water | Field Sampling | |
| 500-238579-20 | HEN_54 | Total/NA | Water | Field Sampling | |
| 500-238579-25 | HEN_52 | Total/NA | Water | Field Sampling | |
| 500-238579-28 | HEN_07 | Total/NA | Water | Field Sampling | |
| 500-238579-30 | HEN_08 | Total/NA | Water | Field Sampling | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | Field Sampling | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | Field Sampling | |
| 500-238579-58 | HEN_16 | Total/NA | Water | Field Sampling | |
| 500-238579-59 | HEN_17 | Total/NA | Water | Field Sampling | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | Field Sampling | |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MB 500-733239/1-A**
**Matrix: Water**
**Analysis Batch: 734023**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 733239**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lithium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 17:47 | 1 |

**Lab Sample ID: LCS 500-733239/2-A**
**Matrix: Water**
**Analysis Batch: 734023**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 733239**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Lithium | 0.250 | 0.264 | | mg/L | | 106 | 85 - 115 |

**Lab Sample ID: 500-238579-16 MS**
**Matrix: Water**
**Analysis Batch: 734023**

**Client Sample ID: HEN_13**
**Prep Type: Total Recoverable**
**Prep Batch: 733239**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Lithium | 0.011 | | 0.250 | 0.293 | | mg/L | | 113 | 70 - 130 |

**Lab Sample ID: 500-238579-16 DU**
**Matrix: Water**
**Analysis Batch: 734023**

**Client Sample ID: HEN_13**
**Prep Type: Total Recoverable**
**Prep Batch: 733239**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Lithium | 0.011 | | 0.00924 | | mg/L | | 20 | 20 |

**Lab Sample ID: MB 500-733585/1-A**
**Matrix: Water**
**Analysis Batch: 734227**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 733585**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lithium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 15:21 | 1 |

**Lab Sample ID: LCS 500-733585/2-A**
**Matrix: Water**
**Analysis Batch: 734227**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 733585**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Lithium | 0.250 | 0.267 | | mg/L | | 107 | 85 - 115 |

**Lab Sample ID: MB 500-734532/1-A**
**Matrix: Water**
**Analysis Batch: 734888**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 734532**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Lithium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 09/28/23 17:00 | 09/29/23 14:43 | 1 |

**Lab Sample ID: LCS 500-734532/2-A**
**Matrix: Water**
**Analysis Batch: 734888**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 734532**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Lithium | 0.250 | 0.255 | | mg/L | | 102 | 85 - 115 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 500-729866/1-A**
**Matrix: Water**
**Analysis Batch: 731002**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 729866**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Arsenic | <0.0010 | | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Barium | <0.0025 | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Calcium | <0.20 | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Magnesium | <0.20 | | 0.20 | 0.049 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Potassium | <0.50 | | 0.50 | 0.11 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |

**Lab Sample ID: MB 500-729866/1-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 729866**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Boron | <0.050 | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/04/23 22:39 | 1 |
| Sodium | <0.20 | | 0.20 | 0.077 | mg/L | | 08/29/23 08:50 | 10/04/23 22:39 | 1 |

**Lab Sample ID: LCS 500-729866/2-A**
**Matrix: Water**
**Analysis Batch: 731002**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 729866**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 0.500 | 0.522 | | mg/L | | 104 | 80 - 120 |
| Arsenic | 0.100 | 0.0921 | | mg/L | | 92 | 80 - 120 |
| Barium | 0.500 | 0.527 | | mg/L | | 105 | 80 - 120 |
| Beryllium | 0.0500 | 0.0547 | | mg/L | | 109 | 80 - 120 |
| Cadmium | 0.0500 | 0.0515 | | mg/L | | 103 | 80 - 120 |
| Calcium | 10.0 | 10.2 | | mg/L | | 102 | 80 - 120 |
| Chromium | 0.200 | 0.214 | | mg/L | | 107 | 80 - 120 |
| Cobalt | 0.500 | 0.546 | | mg/L | | 109 | 80 - 120 |
| Lead | 0.100 | 0.116 | | mg/L | | 116 | 80 - 120 |
| Magnesium | 10.0 | 10.4 | | mg/L | | 104 | 80 - 120 |
| Molybdenum | 1.00 | 0.986 | | mg/L | | 99 | 80 - 120 |
| Potassium | 10.0 | 9.96 | | mg/L | | 100 | 80 - 120 |
| Selenium | 0.100 | 0.0939 | | mg/L | | 94 | 80 - 120 |
| Thallium | 0.100 | 0.115 | | mg/L | | 115 | 80 - 120 |

**Lab Sample ID: LCS 500-729866/2-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 729866**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Boron | 1.00 | 0.934 | | mg/L | | 93 | 80 - 120 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 500-729866/2-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 729866**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Sodium | 10.0 | 9.62 | | mg/L | | 96 | 80 - 120 |

**Lab Sample ID: MB 500-730528/1-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Arsenic | 0.000279 | J | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Barium | <0.0025 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Boron | <0.050 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Calcium | 0.0704 | J | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Magnesium | <0.20 | | 0.20 | 0.049 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Potassium | <0.50 | | 0.50 | 0.11 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Sodium | 0.104 | J | 0.20 | 0.077 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |

**Lab Sample ID: MB 500-730528/1-A**
**Matrix: Water**
**Analysis Batch: 736032**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:41 | 1 |

**Lab Sample ID: MB 500-730528/1-A**
**Matrix: Water**
**Analysis Batch: 736227**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:24 | 1 |

**Lab Sample ID: LCS 500-730528/2-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 0.500 | 0.507 | | mg/L | | 101 | 80 - 120 |
| Arsenic | 0.100 | 0.0933 | | mg/L | | 93 | 80 - 120 |
| Barium | 0.500 | 0.546 | | mg/L | | 109 | 80 - 120 |
| Beryllium | 0.0500 | 0.0507 | ^1+ | mg/L | | 101 | 80 - 120 |
| Boron | 1.00 | 0.920 | | mg/L | | 92 | 80 - 120 |
| Cadmium | 0.0500 | 0.0504 | | mg/L | | 101 | 80 - 120 |
| Calcium | 10.0 | 9.67 | | mg/L | | 97 | 80 - 120 |
| Chromium | 0.200 | 0.207 | | mg/L | | 103 | 80 - 120 |
| Cobalt | 0.500 | 0.519 | | mg/L | | 104 | 80 - 120 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 500-730528/2-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Lead | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |
| Magnesium | 10.0 | 9.71 | | mg/L | | 97 | 80 - 120 |
| Molybdenum | 1.00 | 0.975 | | mg/L | | 97 | 80 - 120 |
| Potassium | 10.0 | 10.1 | | mg/L | | 101 | 80 - 120 |
| Sodium | 10.0 | 9.79 | | mg/L | | 98 | 80 - 120 |

**Lab Sample ID: LCS 500-730528/2-A**
**Matrix: Water**
**Analysis Batch: 736032**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Selenium | 0.100 | 0.0967 | | mg/L | | 97 | 80 - 120 |

**Lab Sample ID: LCS 500-730528/2-A**
**Matrix: Water**
**Analysis Batch: 736227**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 730528**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Thallium | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 |

**Lab Sample ID: MB 500-730537/1-A**
**Matrix: Water**
**Analysis Batch: 731002**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 730537**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Barium | <0.0025 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Calcium | <0.20 | | 0.20 | 0.044 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Magnesium | <0.20 | | 0.20 | 0.049 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Potassium | <0.50 | | 0.50 | 0.11 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |

**Lab Sample ID: MB 500-730537/1-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Method Blank**
**Prep Type: Total Recoverable**
**Prep Batch: 730537**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | <0.0010 | | 0.0010 | 0.00023 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |
| Boron | <0.050 | | 0.050 | 0.013 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |
| Sodium | 0.0814 | J | 0.20 | 0.077 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 6020B - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 500-730537/2-A**
**Matrix: Water**
**Analysis Batch: 731002**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 730537**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Antimony | 0.500 | 0.522 | | mg/L | | 104 | 80 - 120 |
| Barium | 0.500 | 0.516 | | mg/L | | 103 | 80 - 120 |
| Cadmium | 0.0500 | 0.0502 | | mg/L | | 100 | 80 - 120 |
| Calcium | 10.0 | 10.0 | | mg/L | | 100 | 80 - 120 |
| Chromium | 0.200 | 0.210 | | mg/L | | 105 | 80 - 120 |
| Cobalt | 0.500 | 0.531 | | mg/L | | 106 | 80 - 120 |
| Lead | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |
| Magnesium | 10.0 | 10.2 | | mg/L | | 102 | 80 - 120 |
| Molybdenum | 1.00 | 0.984 | | mg/L | | 98 | 80 - 120 |
| Potassium | 10.0 | 9.94 | | mg/L | | 99 | 80 - 120 |
| Selenium | 0.100 | 0.0919 | | mg/L | | 92 | 80 - 120 |
| Thallium | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |

**Lab Sample ID: LCS 500-730537/2-A**
**Matrix: Water**
**Analysis Batch: 735519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total Recoverable**
**Prep Batch: 730537**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.100 | 0.0974 | | mg/L | | 97 | 80 - 120 |
| Beryllium | 0.0500 | 0.0527 | ^1+ | mg/L | | 105 | 80 - 120 |
| Boron | 1.00 | 1.01 | | mg/L | | 101 | 80 - 120 |
| Sodium | 10.0 | 10.2 | | mg/L | | 102 | 80 - 120 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-730135/12-A**
**Matrix: Water**
**Analysis Batch: 730327**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 730135**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 06:53 | 1 |

**Lab Sample ID: LCS 500-730135/13-A**
**Matrix: Water**
**Analysis Batch: 730327**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 730135**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00201 | 0.00206 | | mg/L | | 103 | 80 - 120 |

**Lab Sample ID: MB 500-730358/12-A**
**Matrix: Water**
**Analysis Batch: 730570**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 730358**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 06:55 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 500-730358/13-A**
**Matrix: Water**
**Analysis Batch: 730570**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 730358**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | | 0.00201 | 0.00201 | | mg/L | | 100 | 80 - 120 | | |

**Lab Sample ID: 500-238579-G-39-D MS**
**Matrix: Water**
**Analysis Batch: 730570**

**Client Sample ID: 500-238579-G-39-D MS**
**Prep Type: Total/NA**
**Prep Batch: 730358**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00100 | 0.00101 | | mg/L | | 101 | 75 - 125 | | |

**Lab Sample ID: 500-238579-G-39-E MSD**
**Matrix: Water**
**Analysis Batch: 730570**

**Client Sample ID: 500-238579-G-39-E MSD**
**Prep Type: Total/NA**
**Prep Batch: 730358**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00100 | 0.00103 | | mg/L | | 103 | 75 - 125 | 2 | 20 |

**Lab Sample ID: 500-238579-G-39-C DU**
**Matrix: Water**
**Analysis Batch: 730570**

**Client Sample ID: 500-238579-G-39-C DU**
**Prep Type: Total/NA**
**Prep Batch: 730358**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | <0.00020 | | mg/L | | NC | 20 |

**Lab Sample ID: MB 500-730985/12-A**
**Matrix: Water**
**Analysis Batch: 731203**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 730985**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 07:26 | 1 |

**Lab Sample ID: LCS 500-730985/13-A**
**Matrix: Water**
**Analysis Batch: 731203**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 730985**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | | | 0.00201 | 0.00206 | | mg/L | | 103 | 80 - 120 | | |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-729689/34**
**Matrix: Water**
**Analysis Batch: 729689**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/28/23 18:23 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/28/23 18:23 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/28/23 18:23 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 500-729689/35**
**Matrix: Water**
**Analysis Batch: 729689**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 20.0 | 19.6 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 20.0 | 20.2 | | mg/L | | 101 | 90 - 110 |
| Sulfate | 20.0 | 20.9 | | mg/L | | 104 | 90 - 110 |

**Lab Sample ID: MB 500-729898/3**
**Matrix: Water**
**Analysis Batch: 729898**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 0.120 | J | 1.0 | 0.12 | mg/L | | | 08/29/23 10:28 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 10:28 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/29/23 10:28 | 1 |

**Lab Sample ID: MB 500-729898/44**
**Matrix: Water**
**Analysis Batch: 729898**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/29/23 20:50 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 20:50 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/29/23 20:50 | 1 |

**Lab Sample ID: LCS 500-729898/4**
**Matrix: Water**
**Analysis Batch: 729898**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 20.0 | 19.6 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 20.0 | 20.2 | | mg/L | | 101 | 90 - 110 |
| Sulfate | 20.0 | 20.9 | | mg/L | | 104 | 90 - 110 |

**Lab Sample ID: LCS 500-729898/45**
**Matrix: Water**
**Analysis Batch: 729898**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 20.0 | 19.7 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 20.0 | 20.4 | | mg/L | | 102 | 90 - 110 |
| Sulfate | 20.0 | 20.9 | | mg/L | | 104 | 90 - 110 |

**Lab Sample ID: MB 500-730144/3**
**Matrix: Water**
**Analysis Batch: 730144**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/30/23 13:15 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/30/23 13:15 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/30/23 13:15 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 500-730144/4**
**Matrix: Water**
**Analysis Batch: 730144**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 20.0 | 19.5 | | mg/L | | 97 | 90 - 110 |
| Fluoride | 20.0 | 20.1 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 20.0 | 20.8 | | mg/L | | 104 | 90 - 110 |

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 500-729808/28**
**Matrix: Water**
**Analysis Batch: 729808**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:07 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 19:07 | 1 |

**Lab Sample ID: MB 500-729808/3**
**Matrix: Water**
**Analysis Batch: 729808**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 15:43 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/28/23 15:43 | 1 |

**Lab Sample ID: LCS 500-729808/4**
**Matrix: Water**
**Analysis Batch: 729808**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity | 100 | 92.6 | | mg/L | | 93 | 90 - 110 |

**Lab Sample ID: 500-238579-15 DU**
**Matrix: Water**
**Analysis Batch: 729808**

**Client Sample ID: HEN_12**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Bicarbonate Alkalinity as CaCO3 | 220 | | 220 | | mg/L | | 0.4 | 20 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 20 |

**Lab Sample ID: MB 500-730242/3**
**Matrix: Water**
**Analysis Batch: 730242**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 15:42 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/30/23 15:42 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: SM 2320B - Alkalinity (Continued)

**Lab Sample ID: LCS 500-730242/4**
**Matrix: Water**
**Analysis Batch: 730242**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity | 100 | 90.2 | | mg/L | | 90 | 90 - 110 |

**Lab Sample ID: MB 500-730652/3**
**Matrix: Water**
**Analysis Batch: 730652**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/31/23 16:08 | 1 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | 5.0 | 3.7 | mg/L | | | 08/31/23 16:08 | 1 |

**Lab Sample ID: LCS 500-730652/4**
**Matrix: Water**
**Analysis Batch: 730652**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Alkalinity | 100 | 90.8 | | mg/L | | 91 | 90 - 110 |

**Lab Sample ID: 500-238579-I-37 DU**
**Matrix: Water**
**Analysis Batch: 730652**

**Client Sample ID: 500-238579-I-37 DU**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Bicarbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 20 |
| Carbonate Alkalinity as CaCO3 | <5.0 | | <5.0 | | mg/L | | NC | 20 |

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 500-729794/1**
**Matrix: Water**
**Analysis Batch: 729794**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | <10 | | 10 | 4.3 | mg/L | | | 08/28/23 20:37 | 1 |

**Lab Sample ID: LCS 500-729794/2**
**Matrix: Water**
**Analysis Batch: 729794**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 250 | 232 | | mg/L | | 93 | 80 - 120 |

**Lab Sample ID: MB 500-730129/1**
**Matrix: Water**
**Analysis Batch: 730129**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | <10 | | 10 | 4.3 | mg/L | | | 08/30/23 11:22 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 500-730129/2**
**Matrix: Water**
**Analysis Batch: 730129**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | | 250 | 290 | | mg/L | | 116 | 80 - 120 | | |

**Lab Sample ID: 500-238579-I-41 DU**
**Matrix: Water**
**Analysis Batch: 730129**

**Client Sample ID: 500-238579-I-41 DU**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | <10 | | | <10 | | mg/L | | | | NC | 5 |

**Lab Sample ID: MB 500-730463/1**
**Matrix: Water**
**Analysis Batch: 730463**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | <10 | | 10 | 4.3 | mg/L | | | 08/31/23 23:07 | 1 |

**Lab Sample ID: LCS 500-730463/2**
**Matrix: Water**
**Analysis Batch: 730463**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | | 250 | 240 | | mg/L | | 96 | 80 - 120 | | |

**Lab Sample ID: 500-238579-58 MS**
**Matrix: Water**
**Analysis Batch: 730463**

**Client Sample ID: HEN_16**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 450 | | 250 | 728 | | mg/L | | 111 | 75 - 125 | | |

**Lab Sample ID: 500-238579-58 DU**
**Matrix: Water**
**Analysis Batch: 730463**

**Client Sample ID: HEN_16**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 450 | | | 430 | | mg/L | | | | 5 | 5 |

**Lab Sample ID: 500-238579-59 DU**
**Matrix: Water**
**Analysis Batch: 730463**

**Client Sample ID: HEN_17**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | 420 | | | 426 | | mg/L | | | | 0.9 | 5 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_12
**Date Collected: 08/23/23 10:10**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-15
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 734532 | MC | EET CHI | 09/28/23 17:00 - 09/28/23 23:00 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734888 | RN | EET CHI | 09/29/23 14:51 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 15:37 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/04/23 23:58 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:27 |
| Total/NA | Analysis | 300.0 | | 1 | 729689 | W1T | EET CHI | 08/29/23 05:46 |
| Total/NA | Analysis | 300.0 | | 5 | 729689 | W1T | EET CHI | 08/29/23 06:01 |
| Total/NA | Analysis | SM 2320B | | 1 | 729808 | EH | EET CHI | 08/28/23 18:48 |
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:13 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/23/23 10:10 |

## Client Sample ID: HEN_13
**Date Collected: 08/23/23 11:25**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-16
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 18:49 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 15:47 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 00:09 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:30 |
| Total/NA | Analysis | 300.0 | | 1 | 729689 | W1T | EET CHI | 08/29/23 06:16 |
| Total/NA | Analysis | 300.0 | | 5 | 729689 | W1T | EET CHI | 08/29/23 06:31 |
| Total/NA | Analysis | SM 2320B | | 1 | 729808 | EH | EET CHI | 08/28/23 19:19 |
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:15 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/23/23 11:25 |

## Client Sample ID: HEN_46
**Date Collected: 08/23/23 08:55**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-18
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:06 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 15:51 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 00:13 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_46
**Date Collected: 08/23/23 08:55**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-18
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:32 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 15:46 |
| Total/NA | Analysis | 300.0 | | 5 | 729898 | W1T | EET CHI | 08/29/23 16:32 |
| Total/NA | Analysis | SM 2320B | | 1 | 729808 | EH | EET CHI | 08/28/23 19:28 |
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:18 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/23/23 08:55 |

## Client Sample ID: HEN_47
**Date Collected: 08/23/23 15:30**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-19
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:10 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 15:54 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 00:17 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:34 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 16:47 |
| Total/NA | Analysis | 300.0 | | 2 | 729898 | W1T | EET CHI | 08/29/23 17:02 |
| Total/NA | Analysis | SM 2320B | | 1 | 729808 | EH | EET CHI | 08/28/23 19:37 |
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:20 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/23/23 15:30 |

## Client Sample ID: HEN_54
**Date Collected: 08/23/23 13:50**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-20
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:14 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 15:57 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 00:21 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:36 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 17:17 |
| Total/NA | Analysis | 300.0 | | 5 | 729898 | W1T | EET CHI | 08/29/23 17:33 |
| Total/NA | Analysis | SM 2320B | | 1 | 729808 | EH | EET CHI | 08/28/23 19:47 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

HEN_257_803

## Client Sample ID: HEN_54
**Date Collected: 08/23/23 13:50**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-20
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:23 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/23/23 13:50 |

## Client Sample ID: HEN_52
**Date Collected: 08/24/23 09:40**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-25
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:27 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 16:01 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 00:24 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:42 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 18:48 |
| Total/NA | Analysis | 300.0 | | 5 | 729898 | W1T | EET CHI | 08/29/23 19:34 |
| Total/NA | Analysis | SM 2320B | | 1 | 730242 | EH | EET CHI | 08/30/23 16:07 |
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:31 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 09:40 |

## Client Sample ID: HEN_07
**Date Collected: 08/24/23 14:00**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-28
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:31 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:41 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 22:51 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736355 | BJH | EET CHI | 10/10/23 12:10 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:49 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 21:20 |
| Total/NA | Analysis | 300.0 | | 5 | 729898 | W1T | EET CHI | 08/29/23 21:35 |
| Total/NA | Analysis | SM 2320B | | 1 | 730242 | EH | EET CHI | 08/30/23 16:36 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:27 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 14:00 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_08
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-30
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:35 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:44 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 22:55 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 12:38 |
| Total/NA | Prep | 7470A | | | 730358 | MJG | EET CHI | 08/31/23 11:45 - 08/31/23 13:45 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730570 | MJG | EET CHI | 09/01/23 07:02 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 21:50 |
| Total/NA | Analysis | 300.0 | | 10 | 729898 | W1T | EET CHI | 08/29/23 22:36 |
| Total/NA | Analysis | SM 2320B | | 1 | 730242 | EH | EET CHI | 08/30/23 16:45 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:30 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 15:10 |

## Client Sample ID: HEN_08&D
**Date Collected: 08/24/23 12:25**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-32
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:40 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:48 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 22:58 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 12:41 |
| Total/NA | Prep | 7470A | | | 730358 | MJG | EET CHI | 08/31/23 11:45 - 08/31/23 13:45 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730570 | MJG | EET CHI | 09/01/23 07:04 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 22:51 |
| Total/NA | Analysis | 300.0 | | 10 | 729898 | W1T | EET CHI | 08/29/23 23:06 |
| Total/NA | Analysis | SM 2320B | | 1 | 730242 | EH | EET CHI | 08/30/23 16:56 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:33 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 12:25 |

## Client Sample ID: HEN_08_FD
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-34
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:44 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_08_FD
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-34
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:59 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 23:01 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 12:45 |
| Total/NA | Prep | 7470A | | | 730358 | MJG | EET CHI | 08/31/23 11:45 - 08/31/23 13:45 [1] |
| Total/NA | Analysis | 7470A | | 1 | 730570 | MJG | EET CHI | 09/01/23 07:06 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 23:21 |
| Total/NA | Analysis | 300.0 | | 10 | 729898 | W1T | EET CHI | 08/29/23 23:37 |
| Total/NA | Analysis | SM 2320B | | 1 | 730242 | EH | EET CHI | 08/30/23 17:06 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:36 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 15:10 |

## Client Sample ID: HEN_16
**Date Collected: 08/28/23 08:35**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-58
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733585 | BDE | EET CHI | 09/22/23 09:44 - 09/22/23 10:14 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734227 | RN | EET CHI | 09/26/23 19:33 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 04:19 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/07/23 00:11 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 736355 | BJH | EET CHI | 10/10/23 12:37 |
| Total/NA | Prep | 7470A | | | 730985 | MJG | EET CHI | 09/06/23 09:20 - 09/06/23 11:20 [1] |
| Total/NA | Analysis | 7470A | | 1 | 731203 | MJG | EET CHI | 09/07/23 08:10 |
| Total/NA | Analysis | 300.0 | | 1 | 730144 | EH | EET CHI | 08/30/23 17:51 |
| Total/NA | Analysis | 300.0 | | 5 | 730144 | EH | EET CHI | 08/30/23 18:06 |
| Total/NA | Analysis | SM 2320B | | 1 | 730652 | EH | EET CHI | 08/31/23 18:25 |
| Total/NA | Analysis | SM 2540C | | 1 | 730463 | CLB | EET CHI | 08/31/23 23:12 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/28/23 08:35 |

## Client Sample ID: HEN_17
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-59
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733585 | BDE | EET CHI | 09/22/23 09:44 - 09/22/23 10:14 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734227 | RN | EET CHI | 09/26/23 19:42 |
| Total Recoverable | Prep | 3005A | | | 730537 | BDE | EET CHI | 09/01/23 09:05 - 09/01/23 09:35 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 19:28 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Client Sample ID: HEN_17
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-59
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 3005A | | | 730537 | BDE | EET CHI | 09/01/23 09:05 - 09/01/23 09:35 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/04/23 22:08 |
| Total/NA | Prep | 7470A | | | 730985 | MJG | EET CHI | 09/06/23 09:20 - 09/06/23 11:20 [1] |
| Total/NA | Analysis | 7470A | | 1 | 731203 | MJG | EET CHI | 09/07/23 08:12 |
| Total/NA | Analysis | 300.0 | | 1 | 730144 | EH | EET CHI | 08/30/23 18:21 |
| Total/NA | Analysis | 300.0 | | 5 | 730144 | EH | EET CHI | 08/30/23 18:37 |
| Total/NA | Analysis | SM 2320B | | 1 | 730652 | EH | EET CHI | 08/31/23 18:35 |
| Total/NA | Analysis | SM 2540C | | 1 | 730463 | CLB | EET CHI | 08/31/23 23:19 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/28/23 09:40 |

## Client Sample ID: HEN_17-FD
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-60
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total Recoverable | Prep | 200.7 | | | 733585 | BDE | EET CHI | 09/22/23 09:44 - 09/22/23 10:14 [1] |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734227 | RN | EET CHI | 09/26/23 19:50 |
| Total Recoverable | Prep | 3005A | | | 730537 | BDE | EET CHI | 09/01/23 09:05 - 09/01/23 09:35 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 19:35 |
| Total Recoverable | Prep | 3005A | | | 730537 | BDE | EET CHI | 09/01/23 09:05 - 09/01/23 09:35 [1] |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/04/23 22:16 |
| Total/NA | Prep | 7470A | | | 730985 | MJG | EET CHI | 09/06/23 09:20 - 09/06/23 11:20 [1] |
| Total/NA | Analysis | 7470A | | 1 | 731203 | MJG | EET CHI | 09/07/23 08:22 |
| Total/NA | Analysis | 300.0 | | 1 | 730144 | EH | EET CHI | 08/30/23 19:22 |
| Total/NA | Analysis | 300.0 | | 5 | 730144 | EH | EET CHI | 08/30/23 19:37 |
| Total/NA | Analysis | SM 2320B | | 1 | 730652 | EH | EET CHI | 08/31/23 18:44 |
| Total/NA | Analysis | SM 2540C | | 1 | 730463 | CLB | EET CHI | 08/31/23 23:25 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/28/23 09:40 |

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

# Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-20
SDG: HEN_257_803

## Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Illinois | NELAP | IL00035 | 04-29-24 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 200.7 Rev 4.4 | 200.7 | Water | Lithium |
| Field Sampling | | Water | Depth to Water (ft from MP) |
| Field Sampling | | Water | Field pH |
| Field Sampling | | Water | Field Temperature |
| Field Sampling | | Water | Oxidation Reduction Potential |
| Field Sampling | | Water | Oxygen, Dissolved |
| Field Sampling | | Water | Specific Conductance |
| Field Sampling | | Water | Turbidity |
| SM 2320B | | Water | Bicarbonate Alkalinity as CaCO3 |
| SM 2320B | | Water | Carbonate Alkalinity as CaCO3 |

500-238519

# 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/A3 | Report To: | Brian Voelker | Attention | Jason Stuckey |
| Address | 3030 Warrenville Rd Ste 418 | Copy To: | Jason Stuckey | Company Name: | Vistra Corp |
| | Lisle IL 60532 | | | 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: | 50021987 | 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 # | 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 8/23/23 | 1010 | | | | | | | | | | | | | | X | | X | | X | | | | X | | | | SHORT HOLDS-NO2 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

15

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/23/23 | 1700 | J.J. Ellison ELTA | 8/24/23 | 0839 | Y Y Y |
| | J.J. Ellison | 8/24/23 | 0939 | Stephanie Hernandez ELTA | 8/24/23 | 0939 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/23/23

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 2.1+1.7 | | | |

500-238594-1

# 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/A3 |
| Address: | 3030 Warrenville Rd Ste 418 |
| | Lisle IL 60532 |
| 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: | 50021987 |

**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)

| 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_13 | | | 8/23/23 | 1125 | | | | | | | | | | | | | | X | | X | | X | | | | X | | | | SHORT HOLDS-NO2 |
| 2 | HEN_13_FD | | | 8/23/23 | 1125 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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17

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/23/23 | 1700 | J. Ellar EETA | 8/24/23 | 0839 | 3.3 2.9 |
| | J. Ellar EETA | 8/24/23 | 0938 | Stephanie Hernandez EETA | 8/24/23 | 0938 | 2.4 3 * 8/24/23 |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett

DATE Signed (MM/DD/YY): 8/23/23

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

500-230579

# 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/A3 | Report To: Brian Voelker | Attention: Jason Stuckey |
| Address: | 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_46 | | | 8/23/23 | 0855 | | | | | | | | | | | | | | X | | | | X | | | | X | | | | SHORT HOLD-NO2 |
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18

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/23/23 | 1700 | R.J. Ellis EETM | 8/24/23 | 0939 | Y Y Y |
| | R.J. Ellis EETM | 8/24/23 | 0938 | Stephanie Hamandi EETM | 8/24/23 | 0938 | |

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Allison Beckett
DATE Signed (MM/DD/YY): 8/23/23

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

2.1+1.7

500-238579

# 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/A3 | Report To: Brian Voelker | Attention: Jason Stuckey |
| Address: | 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 nformation

**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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 1 | HEN_47 | | | 8/23/23 | 1530 | | | | | | | | | | | | | | X | | | | X | | | | X | | | | SHORT HOLD-NO2 |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/23/23 | 1700 | RJ Ellis EETA | 8/24/23 | 0939 | X Y Y |
| | RJ Ellis EETA | 8/24/23 | 0938 | Stephanie Hernandez EETA | 8/24/23 | 0938 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett

DATE Signed (MM/DD/YY): 8/23/23

| Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 4.1-3.7 | | | |

500-23059

# 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/A3 | Report To: Brian Voelker | Attention: Jason Stuckey |
| Address: | 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_54 | | | 8/23/23 | 1350 | | | | | | | | | | | | | | X | | | | X | | | | X | | | | SHORT HOLD-NO2 |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/23/23 | 1700 | R J. Ellis EETA | 8/24/23 | 0838 | Y Y Y |
| | R J. Ellis EETA | 8/24/23 | 0938 | Stephanie Hennon EETA | 8/24/23 | 0938 | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett

DATE Signed (MM/DD/YY): 8/23/23

Temp in C: 4.1 4.3.7

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

500-238579

# 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/A3 | Report To: Brian Voelker | Attention: Jason Stuckey |
| Address: | 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 # | 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: HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-804 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 8/24/23 | 0940 | | | | | | | | | | | | | | X | | | | X | | | | X | | | SHORT HOLD-NO2 |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/24/23 | 1700 | R. J. Ellis EETA | 8/25/23 | 0825 | | Y | Y | Y |
| | R. J. Ellis EETA | 8/25/23 | 0932 | Stephanie Humanday EETA | 8/25/23 | 0932 | | | | |

| SAMPLER NAME AND SIGNATURE | | | | | |
|---|---|---|---|---|---|
| PRINT Name of SAMPLER: Allison Beckett | | 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): 8/24/23 | | | | |

3.2+2.8

500-238579

# 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/A3 | Report To | Brian Voelker | Attention | Jason Stuckey |
| Address | 3030 Warrenville Rd Ste 418 | Copy To: | Jason Stuckey | Company Name. | Vistra Corp |
| | Lisle IL 60532 | | | 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: | 50021987 | 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-804 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_07 | | | 8/24/23 | 1400 | | | | | | | | | | | | X | X | X | | | X | X | | X | | X | X | | | SHORT HOLDS-NO2 |
| 2 | Trip Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Added by EETA 8/25/23 SH |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/24/23 | 1700 | J. Ellis EETA | 8/25/23 | 0825 | | Y | Y | Y |
| | J. Ellis EETA | 8/25/23 | 0932 | Stephanie Hernandez EETA | 8/25/23 | 0932 | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett

DATE Signed (MM/DD/YY): 8/24/23

| Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 3.2+2.8 | | | |

500-238579

# CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 1

| Section A Required Client Information | | Section B Required Project Information | | Section C Invoice Information | |
|---|---|---|---|---|---|
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| Address | 3030 Warrenville Rd Ste 418 | Copy To. | Jason Stuckey | Company Name | Vistra Corp |
| | Lisle IL 60532 | | | 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: | 50021987 | 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: HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_08 | | | 8/24/23 | 1510 | | | | | | | | | | | X | X | X | | X | X | X | | X | | X | X | | | SHORT HOLDS NO2 |
| 2 | Trip Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Added by EEA 8/25/23 GH |
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| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/24/23 | 1700 | R. J. Ellis EEA | 8/25/23 | 0825 | | 4 | 4 | 4 |
| | R. J. Ellis EEA | 8/25/23 | 0932 | Stephanie Hernandez EEA | 8/25/23 | 0932 | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 8/24/23

2.4+2.0

500-238579

# 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/A3 |
| Address | |
| Email To: | Brian.Voelker@VistraCorp.com |
| Phone | (217) 753-8911 Fax |
| Requested Due Date/TAT | 10 day |

**Section B** Required Project Information

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

**Section C** Invoice Information

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

**REGULATORY AGENCY**

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

**Section D** Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED DATE | COLLECTED TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Y/N: Analysis Test | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_08&D | | | 8/24/23 | 1225 | | | | | | | | | | | | X | X | X | | X | X | X | | X | | X | X | | | SHORT HOLD-NO2 |
| 2 | Trip Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Added by EETA 8/25/23 SH |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/24/23 | 1700 | Stephanie Ellis EETA | 8/25/23 | 0825 | | Y | Y | Y |
| | Stephanie Ellis EETA | 8/25/23 | 0932 | Stephanie Hernandez EETA | 8/25/23 | 0932 | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett

DATE Signed (MM/DD/YY): 8/24/23

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 13+1.0 | | | |

500-238579

# 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/A3 | Report To | Brian Voelker | Attention | Jason Stuckey |
| Address: | 3030 Warrenville Rd Ste 418 | Copy To: | Jason Stuckey | Company Name: | Vistra Corp |
| | Lisle IL 60532 | | | 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: | 50021987 | 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_08_FD | | | 8/24/23 | 1515 | | | | | | | | | | | | X | X | X | | X | X | X | | X | | X | X | | | SHORT HOLDS -NO2 |
| 2 | Trip Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Added in EETA 8/25/23 SH |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Bechtel | | 1700 | Stephanie Hernandez EETA | 8/25/23 | 0825 | | Y | Y | Y |
| | Stephanie Hernandez EETA | 8/25/23 | 0932 | Stephanie Hernandez EETA | 8/25/23 | 0932 | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Bechtel

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/24/23

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 2.4+2.0 | | | |

# CHAIN-OF-CUSTODY / Analytical Request Document

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

500-238579 COC

500-238579

Page 1 of 1

**Section A** Required Client Information

| | |
|---|---|
| Company: | Vistra Corp/A3 |
| Address | 3030 Warrenville Rd Ste 418 |
| | Lisle IL 60532 |
| 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: | 50021987 |

**Section C** Invoice Information

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

**REGULATORY AGENCY**

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE. IL

**Section D** Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED DATE | COLLECTED TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42 1 | HEN_257_FB | | | 8/25/23 | 1200 | | | | | | | | | | | | | X | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/25/23 | 1200 | | 8.29.23 | 1500 | Y Y Y |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett DATE Signed (MM/DD/YY): 8/25/23

| Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 3.4+3.0 | | | |

500-238579

# 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/A3 | Report To: | Brian Voelker | Attention | Jason Stuckey |
| Address | 3030 Warrenville Rd Ste 418 | Copy To: | Jason Stuckey | Company Name: | Vistra Corp |
| | Lisle IL 60532 | | | 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: | 50021987 | 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 | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_16 | | | 8/28/23 | 0835 | | | | | | | | | | | | X | | X | | | | X | | | | X | | | | SHORT HOLDS-NO2 |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/28/23 | 1500 | EETA | 8/28/23 | 1500 | |
| | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett

DATE Signed (MM/DD/YY): 8/28/23

| Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 2.1→1.7 | | | |

500-238579

# 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/A3 | Report To: Brian Voelker | Attention: Jason Stuckey |
| Address: | Copy To: Jason Stuckey | Company Name: Vistra Corp |
| | Purchase Order No. | Address: see Section A |
| Email To: Brian.Voelker@VistraCorp.com | Project Name: | Quote Reference |
| Phone: (217) 753-8911 Fax: | Project Number: 2285 | Project Manager |
| Requested Due Date/TAT: 10 day | | 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: HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | Project No./ Lab I D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEN_17 | | | 8/29/23 | 0940 | | | | | | | | | | | | X | | X | | | | X | | | | X | | | | SHORT HOLDS-NO2 |
| 2 | HEN-17DUP | | | ↓ | ↓ | | | | | | | | | | | | X | | X | | | | X | | | | X | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

59
60

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/29/23 | 1500 | Kaur EETA | 8/28/23 | 1500 | |
| | | | | | | | |

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 8/28/23

| Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|
| 24 → 20 | | | |

# Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-20
SDG Number: HEN_257_803

**Login Number: 238579**
**List Number: 1**
**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

| 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. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.6,0.7,0.3,1.2,0.8,0.4,0.1,2.9,1.7,3.7,1.0,2.8,0.2, 2.0,2.9,0.1,1.63.0,1.3,0.5,2 |
| 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. | False | |
| 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. | False | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| 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"). | False | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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

| Well | Unique ID | Date | Time | Measured Depth to Water (ft bmp) | Comments | Initials |
|---|---|---|---|---|---|---|
| 02 | HEN_02 | 8/21/23 | 1200 | 41.84 | | CT |
| 04R | HEN_04R | 8/21/23 | 1035 | 37.08 | | CT |
| 05R | HEN_05!R | 8/21/23 | 1105 | 38.69 | | CT |
| 05DR | HEN_05&DR | 8/21/23 | 1115 | 38.73 | | CT |
| 06 | HEN_06 | 8/21/23 | 1140 | 20.8 | | CT |
| 10 | HEN_10 | 8/21/23 | 0955 | 48.28 | | CT |
| 11 | HEN_11 | 8/21/23 | 0950 | 48.33 | | CT |
| 15 | HEN_15 | 8/21/23 | 1030 | 47.89 | | CT |
| 19S | HEN_19#S | 8/21/23 | 1045 | 37.2 | | CT |
| 19D | HEN_19&D | 8/21/23 | 1040 | 37.34 | | CT |
| 25 | HEN_25 | 8/22/23 | 0945 | 14.02 | ~~*[illegible]~~ | CT |
| 26 | HEN_26 | 8/22/23 | 0940 | 13.26 | | CT |
| 30 | HEN_30 | 8/22/23 | 1000 | 4.85 | | CT |
| 31 | HEN_31 | 8/22/23 | 0955 | 4.85 | | CT |
| 33 | HEN_33 | 8/22/23 | 1018 | 2.8' | | CT |
| 36 | HEN_36 | 8/22/23 | 0930 | 13.58 | | CT |
| 40S | HEN_40#S | 8/21/23 | 1050 | 37.92 | | CT |
| 45S | HEN_45#S | 8/21/23 | 1125 | 18.98 | | CT |
| 48 | HEN_48 | 8/21/23 | 1055 | N/A | * COULD NOT MEASURE DUE TO BLOCK | CT |
| XPW01 | HEN_XPW01_pore | 8/21/23 | 1005 | 9.45 | | CT |
| XPW02 | HEN_XPW02_pore | 8/21/23 | 1010 | 14.14 | | CT |
| XPW03 | HEN_XPW03_pore | 8/21/23 | 1020 | 4.86 | | CT |
| ~~XSG01~~ | ~~HEN_XSG01~~ | | | | | |
| ~~SG02~~ | ~~HEN_YSG_ILRIVER~~ | | | | | |

U:6/21/23 GKJ

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 1140
**Well Number** HEN-06

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | ↓ |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | ↓ | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 31.09 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | | X | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | | X |
| Not deteriorated? | | | ↓ |
| Not heaved or below surrounding grade? | | | ↓ |
| 20. No surface seal settling? | | | ↓ |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 20.80 ft pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 10[illegible]45
**Well Number** HEN-195

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | ↓ | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | ↓ |
| 11. Is the well cap lockable? | | | ↓ |
| 12. Is there a lock present? | | | ↓ |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | ↓ | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | ↓ | |

| | |
|---|---|
| If present, how much sediment? | — ft |
| 16. Installed as total depth. | ft |
| 17. Measured total depth of well. | 39.92 ft |

| | Yes | No | NA |
|---|---|---|---|
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | ↓ | |
| 20. No surface seal settling? | | ↓ | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 37.2ft pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 1040
**Well Number** HEN-19D

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 62.55 ft | | |

| General Condition | Yes | No | NA |
|---|---|---|---|
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:
DTW: 37.34 pump in well

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** Hennipen, IL
**Inspection Date** 8/21/23 @ 1035
**Well Number** HEN-MW

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | ↓ | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | ↓ |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | ~ ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 42.78 ft | | |

| | Yes | No | NA |
|---|---|---|---|
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | X | | |
| Not deteriorated? | X | | |
| Not heaved or below surrounding grade? | X | | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

PAD IS CRACKED & MAY NEED REPAIRS 37.08 DTW

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23
**Well Number** HEN-15

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | ~~Yes~~ | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 50.3 ft | | |

| | Yes | No | NA |
|---|---|---|---|
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:
Contains pump! DTW: 47.19ft
Top of pump: 50.3ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 0950
**Well Number** 11

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | X |
| 10. No water in the flushmount? | | X | X |
| 11. Is the well cap lockable? | | | X |
| 12. Is there a lock present? | | | X |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 106.3 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 48.33ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** Hennepin IL
**Inspection Date** 8/22/23 @ 0830
**Well Number** HEN-22 &D

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |
| **Flushmount Monitoring Wells** | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | | | | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | app ft | | | |
| **General Condition** | | | | |
| 18. Concrete pad installed? | | X | | |
| 19 . Concrete pad | | | X | |
| Slope away form casing? | | | ↓ | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Field Personnel: Allison Beckett
Start Date: 8/22/23 Time: 0800
Finish Date: Time: 1015

## WELL INFORMATION

Well ID: HEN-22D
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | ±10% Temp. (°C) | ±0.1 pH (SU) | ±0.1 SEC or Cond. (µs/cm) | Dissolved Oxygen ±0.3 (mg/L) | ±5% or ±1 Turbidity (NTU) | ±10 ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0819 | | | | 19.1 | 7.56 | 0.712 | 3.04 | 3.87 | -12.6 | clear |
| | 0824 | | | | 17.9 | 7.35 | 0.722 | 1.66 | 6.12 | -68.0 | |
| | 0829 | | | | 17.8 | 7.29 | 07.28 | 1.07 | 6.02 | -66.0 | |
| | 0834 | | | | 17.7 | 7.29 | 0.729 | 0.85 | 10.3 | -72.0 | |
| | 0839 | 2.0 | | | 18.2 | 7.29 | 0.730 | 0.84 | 42.11 | -75.7 | |
| | 0844 | | | | 18.6 | 7.30 | 0.730 | 0.87 | 12.9 | -79.6 | |
| 30 | 0849 | | | | 19.0 | 7.30 | 0.731 | 0.85 | 21.43 | -81.7 | |
| | 0854 | | | | 18.0 | 7.30 | 0.729 | 0.105 | 27.6 | -84.1 | |
| 40 | 0859 | | | | 17.7 | 7.30 | 0.731 | 0.83 | 26.2 | -83.0 | |
| 45 | 0904 | 3.5 | | | 18.0 | 7.30 | 0.731 | 0.91 | 24.8 | -82.1 | |
| | | | | | | | | | | | |
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## NOTES (continued)

Samples taken @0910

Ferrous iron: under range @0920

## ABBREVIATIONS

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

P 1 of 1

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/22/23 @ 1200
**Well Number** HEN-23

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | ↓ | | | |
| **Flushmount Monitoring Wells** | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↓ | |
| **All Monitoring Wells** | Yes | No | NA | |
| **Downhole Condition** | — | — | — | — |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | — ft | | | |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | | X | | |
| 19 . Concrete pad | | | X | |
| Slope away form casing? | | | ↓ | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | ↓ | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: in app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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Subject to Change as Information is Clarified or Additional Information Becomes Available



# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/22/23 Time: 1040
Field Personnel: Allison Beckett
Finish Date: Time: 1210

## WELL INFORMATION

Well ID: HEC-23
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1041 | | | | 15.8 | 7.39 | 0.836 | 2.91 | 3.61 | -94.6 | clear |
| | 1046 | | | | 15.7 | 7.40 | 0.836 | 1.32 | 3.75 | -113.9 | |
| | 1051 | | | | 15.4 | 7.42 | 0.838 | 0.49 | 3.79 | -129.0 | |
| | 1056 | 1.5 | | | 15.5 | 7.37 | 0.837 | 0.35 | 3.80 | -128.2 | |
| | 1101 | | | | 15.4 | 7.37 | 0.835 | 0.26 | 5.81 | -128.7 | |
| | 1106 | | | | 15.2 | 7.39 | 0.835 | 0.21 | 4.69 | -126.8 | |
| | 1111 | | | | 15.4 | 7.39 | 0.833 | 0.20 | 7.9 | -125.8 | |
| | 1116 | 3.0 | | | 15.0 | 7.40 | 0.832 | 0.18 | 9.1 | -124.3 | |
| | | | | | | | | | | | |
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## NOTES (continued)

Samples taken @ 1120
Ferrous iron: Under range @ 1145

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/22/23 @ 1308
**Well Number** HEN-21R

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | X | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | X | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

## All Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| **General Condition** | | | | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Kamball
Project Number: _____ Task #: _____
Start Date: 8/22/23 Time: 1300
Field Personnel: Allison Beckett
Finish Date: _____ Time: 1430

## WELL INFORMATION

Well ID: HEN-21R
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (Military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1311 | | | | 17.8 | 7.56 | 0.758 | 1.17 | 59.8 | -129.4 | Clear |
| | 1316 | | | | 17.3 | 7.54 | 0.764 | 1.22 | 58.5 | -139.8 | ↓ |
| | 1321 | | | | 17.2 | 7.54 | 0.705 | 1.06 | 41.69 | -138.9 | Brownish |
| | 1326 | | | | 17.1 | 7.53 | 0.768 | 1.16 | 33.94 | -134.1 | |
| | 1331 | 2.5 | | | 17.9 | 7.52 | 0.765 | 0.95 | 34.3 | -137.2 | |
| | 1336 | | | | 17.1 | 7.53 | 0.763 | 0.930 | 32.3 | -134.9 | |
| 30 | 1341 | 3.0 | | | 16.6 | 7.51 | 0.742 | 0.21 | 34.8 | -136.3 | |
| | | | | | | | | | | | |
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## NOTES (continued)

Samples taken @ 1345

ferrous iron: 0.916 ppm

## ABBREVIATIONS

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

p 1 of 1

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# Monitoring Well Evaluation Checklist

**Site** Hennepin IL
**Inspection Date** 8/22/23 0915
**Well Number** HEN-51

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |
| **Flushmount Monitoring Wells** | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | Yes | No | NA | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | — ft | | | ← app |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | ? | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: Hennepin, IL
Client: Rambol
Project Number:
Task #:
Start Date: 8/22/23 Time: 1500
Field Personnel: Allison Beckett
Finish Date: Time:

## WELL INFORMATION

Well ID: HEN-51
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1506 | | | | 18.9 | 7.45 | 0.725 | 5.56 | 10.51 | -121.3 | Clear |
| | 511 | | | | 17.3 | 7.30 | 0.734 | 2.38 | 12.19 | -88.3 | |
| | 516 | | | | 16.8 | 7.32 | 0.736 | 1.26 | 11.17 | -105.3 | |
| | 521 | 1.0 | | | 17.1 | 7.34 | 0.737 | 0.92 | 31.84 | -115.5 | |
| | 526 | | | | 17.1 | 7.35 | 0.735 | 0.73 | 38.26 | -122.1 | |
| | 531 | | | | 16.6 | 7.35 | 0.737 | 0.63 | 200.2 | -124.5 | |
| 30 | 536 | 2.0 | | | 17.3 | 7.36 | 0.738 | 0.38 | 22.5 | -126.7 | |
| | 541 | | | | 17.2 | 7.37 | 0.734 | 0.33 | 24.2 | -127.4 | |
| | 546 | | | | 17.1 | 7.37 | 0.733 | 0.30 | 25.7 | -127.7 | |
| | 551 | 3.0 | | | 17.3 | 7.37 | 0.730 | 0.27 | 26.2 | -128.6 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

## NOTES (continued)

Samples taken @ 1556

Ferrous iron: 1.744 ppm @ 1618

## ABBREVIATIONS

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

P 1 of 1

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @1580
**Well Number** HEC-22

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | X | X | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |
| **Flushmount Monitoring Wells** | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | | | | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | — ft | | | ← on app |
| **General Condition** | | | | |
| 18. Concrete pad installed? | | X | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | | X | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW = on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/25/23 Time: 08[illegible]15
Field Personnel: Allison Beckett
Finish Date: 8/25/23 Time: 09[illegible]20

## WELL INFORMATION

Well ID: HEN-22
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0821 | | | | 14.2 | 7.68 | 0.456 | 1.47 | 4.00 | 113.9 | Clear |
| | 0826 | | | | 16.1 | 7.68 | 0.653 | 0.27 | 4.10 | 92.6 | |
| | 0831 | 2.5 | | | 16.1 | 7.69 | 0.653 | 0.18 | 4.14 | 87.2 | |
| | 0836 | | | | 16.1 | 7.68 | 0.653 | 0.14 | 4.20 | 78.8 | |
| | 0841 | 5 | | | 16.1 | 7.68 | 0.653 | 0.13 | 4.24 | 77.0 | |
| | 0846 | 5.5 | | | 16.1 | 7.67 | 0.653 | 0.12 | 4.31 | 77.8 | |
| | | | | | | | | | | | |
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## NOTES (continued)

Samples taken @0850

Ferrous iron sample @0920: Underrange

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** _____
**Inspection Date** 4/22/23
**Well Number** HEW32

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 8. Can the lid be secured tightly? | \ | | | |
| 9. Does the lid have a gasket that seals? | | \ | | |
| 10. No water in the flushmount? | | | \ | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

## All Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | ↓ | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | X | | |
| Slope away form casing? | | ↓ | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: HENNEPIN
Client:
Project Number: 2023 0711
Task #:
Start Date: 8/22/23
Time: ~~1035~~
Field Personnel: C. TREMBLAY
Finish Date:
Time: 1135

## WELL INFORMATION

Well ID: HEN-32
Casing ID: inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | 10% <10 Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1040 | 1 | | | 3% | +1 | 3% | 10% | ~~FAIL~~ | +10 | CLEAR |
| SAMPLE | 1048 | | | | 14.0 | 7.10 | 0.718 | 0.45 | 41.69 | 173.6 | |
| | 1053 | | | | 13.9 | 7.11 | 0.716 | 0.21 | 20-60 | 165.2 | |
| | 1058 | | | | 13.8 | 7.10 | 0.715 | 0.12 | 13.02 | 160.1 | |
| | 1103 | 3 | | | 13.8 | 7.10 | 0.715 | 0.09 | 8.77 | 156.9 | |
| | 1108 | | | | 13.8 | 7.10 | 0.716 | 0.09 | 7.30 | 153.9 | |
| | 1113 | 3.25 | | | 13.8 | 7.09 | 0.715 | 0.08 | 5.33 | 151.7 | |
| | ~~1118~~ | | | | | | | | | | |

## NOTES (continued)

SAMPLER 1115

FI WORKING

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** HENNEPIN
**Inspection Date** 8/22/23
**Well Number** 33 @ 1018

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | Yes | No | NA |
|---|---|---|---|
| 3. Are there weep holes in outer casing? | | | X |
| 4. Weep holes able to drain? | | | X |
| 5. Is there a lockable cap present? | X | | |
| 6. Is there a lock present? | | X | |
| 7. Bumper posts in good condition? | ~~X~~ | ~~X~~ | ~~X~~ |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | | | |

| | |
|---|---|
| 16. Installed as total depth. | ft |
| 17. Measured total depth of well. | ft |
| | 36.12 ft |

| | Yes | No | NA | |
|---|---|---|---|---|
| **General Condition** | | | | |
| 18. Concrete pad installed? | | | X | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | | X | | OVERGROWN WEEDS |

Comments:

DTW 7-31
pump in well

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/22/23 @1600
**Well Number** 30

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | Yes | No | NA |
|---|---|---|---|
| 3. Are there weep holes in outer casing? | | | X |
| 4. Weep holes able to drain? | | | X |
| 5. Is there a lockable cap present? | X | | |
| 6. Is there a lock present? | X | | |
| 7. Bumper posts in good condition? | X | | |

## Flushmount Monitoring Wells

| | ~~Yes~~ | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | X |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 18.6 ft | | |

| | Yes | No | NA |
|---|---|---|---|
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:
DTW 4.85
MNS pump

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 2/22/2023 0955
**Well Number** 30

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | X | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 8. Can the lid be secured tightly? | | | | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

## All Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | | X | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| | 8 ft | | | |
| **General Condition** | | | | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW 4.85

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# Monitoring Well Evaluation Checklist

**Site** HENNEPIN
**Inspection Date** 8/22 0945
**Well Number** HEN 25

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | X | |
| 4. Weep holes able to drain? | ~~X~~ | | X | |
| 5. Is there a lockable cap present? | X | ~~X~~ | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | ~~Yes~~ | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | X |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 15.71 ft | w/o pump 25.71 | |

| | Yes | No | NA |
|---|---|---|---|
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

well has pump
DTW 14.02
X LOCK SET UP TO SMOOTH NOTICED BRASS FITTING HAD CRACK

* Major well repair are those that require a subcontractor or separate mobilization to complete

DTW w/o pump 13.5

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## WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

### PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 1335

Field Personnel: C TREMBLY Finish Date: 8/22/23 Time: 1455

### WELL INFORMATION

Well ID: 25

Casing ID: _____ inches

### EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

### WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1342 | | 13.51 | | | | | | | | CLOUDY |
| PURGE | 1348 | 0.25 | 13.51 | | | | | | ~~65.57~~ | | CLEAR |
| SAMPLE | 1350 | | 13.51 | Ø | 17.0 | 7.25 | 0.519 | 1.52 | 65.57 | 171.1 | |
| | 1355 | | | | 16.6 | 7.25 | 0.519 | 1.46 | 42.11 | 171.7 | |
| | 1400 | | | | 16.6 | 7.24 | 0.517 | 1.46 | 26.88 | 172.4 | |
| | 1405 | | 13.51 | Ø | 16.6 | 7.24 | 0.516 | 1.48 | 17.97 | 173.8 | |
| | 1410 | | | | 16.5 | 7.23 | 0.516 | 1.51 | 13.11 | 174.6 | |
| | 1415 | 3 | | | 16.6 | 7.23 | 0.516 | 1.52 | 9.47 | 175.2 | |
| | 1420 | | | | 16.5 | 7.22 | 0.514 | 1.56 | 8.29 | 175.9 | |
| | 1425 | 4 | 13.51 | Ø | 16.6 | 7.22 | 0.514 | 1.59 | 6.43 | 176.5 | |
| | 1430 | | | | | | | | | | |

### NOTES (continued)

*GEOTECH PUMP
F2 - INDURING
SAMPLE @ 1430

### ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** HENNEPIN
**Inspection Date** 9/22/23 0940
**Well Number** HEN 26

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | X | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |
| | 29.1 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | X | |
| Slope away form casing? | | | |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

Well has pump
DTW 13.26'

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## WELL DEVELOPMENT AND GROUNDWATER MONITORING

### PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 1455

Field Personnel: TREVOR LAY Finish Date: _____ Time: _____

### WELL INFORMATION

Well ID: 26

Casing ID: _____ inches

### EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

### WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PURGE | 1500 | 0.1 | 13.8 | | | | | | | | CLEAR |
| SAMPLE | 1506 | | 13.8 | | 17.3 | 7.09 | .784 | 0.51 | 2.31 | 186.1 | |
| | 1511 | | | | 17.2 | 7.09 | .784 | 0.18 | 2.37 | 183.6 | |
| | 1516 | 1.5 | | | 17.1 | 7.09 | 0.784 | 0.16 | 2.40 | 181.8 | |
| | 1521 | | | | 17.0 | 7.09 | 0.785 | 0.04 | 2.41 | 179.9 | |
| | 1526 | | | | 17.0 | 7.09 | 0.784 | 0.02 | 2.44 | 178.6 | |
| | 1531 | 3.0 | 13.9 | - 0.1 | 16.9 | 7.09 | 0.784 | 0.02 | 2.50 | 177.0 | |

### NOTES (continued)

FT UNDERRUN

SAMPLE @ 1535

### ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/23/23 @ 1350
**Well Number** HEN-47

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | Yes | No | NA |
|---|---|---|---|
| 3. Are there weep holes in outer casing? | | X | |
| 4. Weep holes able to drain? | | | X |
| 5. Is there a lockable cap present? | X | | |
| 6. Is there a lock present? | | | |
| 7. Bumper posts in good condition? | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |

| General Condition | Yes | No | NA |
|---|---|---|---|
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client:
Project Number:
Task #:
Start Date: 8/23/23 Time: 1155
Field Personnel: Allison Beckett
Finish Date: 8/23/23 Time: 1607

## WELL INFORMATION

Well ID: HEN-47
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1501 | | | | 22.9 | 6.96 | 0.604 | 6.05 | 3.85 | 113.7 | clear |
| | 1506 | | | | 21.6 | 7.03 | 0.640 | 2.36 | 3.18 | 148.2 | |
| | 1511 | 1.0 | | | 21.6 | 7.03 | 0.640 | 2.05 | 3.12 | 152.0 | |
| | 1516 | | | | 21.6 | 7.03 | 0.639 | 1.79 | 3.02 | 154.6 | |
| | 1521 | | | | 21.5 | 7.03 | 0.641 | 1.68 | 3.01 | 156.2 | |
| | 1526 | 2.5 | | | 21.5 | 7.04 | 0.639 | 1.52 | 3.20 | 155.3 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## NOTES (continued)

Samples taken @ 1530

Ferrous iron @ 1600 : Under range

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin IL
**Inspection Date** 8/23/23 @1105
**Well Number** HEN-12

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | ↓ |
| 11. Is the well cap lockable? | | | ↓ |
| 12. Is there a lock present? | | | ↓ |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | X |
| 13. No obstructions in well? | | ↓ | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | ↓ | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | | X | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | | ↑ |
| Not deteriorated? | | | ↓ |
| Not heaved or below surrounding grade? | | | ↓ |
| 20. No surface seal settling? | | | ↓ |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 0.00

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/23/23 Time: 0930
Field Personnel: Allison Bellwett
Finish Date: 8/23/23 Time: 1040

## WELL INFORMATION

Well ID: HEN-12
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1038 | | | 21.3 | 7.81 | 0.551 | 9.73 | 3.92 | 149.6 | clear |
| | | 1043 | | | 19.7 | 7.39 | 0.559 | 2.45 | 3.25 | 159.4 | |
| | | 1048 | 1.5 | | 19.6 | 7.35 | 0.559 | 2.01 | 3.10 | 157.1 | |
| | | 1053 | | | 19.6 | 7.33 | 0.559 | 1.94 | 3.10 | 155.7 | |
| | | 1058 | 2.5 | | 19.5 | 7.31 | 0.559 | 1.91 | 3.11 | 155.1 | |
| | | 1103 | | | 19.5 | 7.30 | 0.559 | 1.89 | 3.05 | 154.8 | |
| | | 1108 | 4.0 | | 19.5 | 7.30 | 0.558 | 1.88 | 3.0 | 154.1 | |

## NOTES (continued)

Samples taken @ 1010

Ferrous iron @ 1019 : under range

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/23/23 @0825
**Well Number** HEN-416

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | — ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/28/23
Time: 0910
Field Personnel: Allison Beckett
Finish Date: 8/28/23
Time: 0930

## WELL INFORMATION

Well ID: HEN-46
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0819 | | | | 20.9 | 7.40 | 0.559 | 3.37 | 6.50 | 127.4 | clear |
| | 0824 | | | | 20.8 | 7.35 | 0.560 | 2.44 | 4.01 | 142.5 | ↓ |
| | 0829 | | | | 20.8 | 7.35 | 0.560 | 2.34 | 5.82 | 144.1 | |
| | 0834 | 1.5 | | | 20.8 | 7.34 | 0.560 | 2.19 | 9.84 | 144.5 | |
| | 0839 | | | | 20.8 | 7.34 | 0.558 | 2.06 | 14.58 | 144.3 | |
| | 0844 | | | | 20.8 | 7.33 | 0.558 | 1.99 | 17.95 | 143.7 | |
| 30 | 0849 | 3.0 | | | 20.8 | 7.33 | 0.559 | 1.91 | 18.25 | 143.2 | |
| | | | | | 20.9 | 7.33 | 0.559 | 1.85 | 18.98 | 142.2 | |

## NOTES (continued)

Samples taken @ 0855

Ferrous iron: Under range @ 0910

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/23/23 @ 1334
**Well Number** HEN-54

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

| All Monitoring Wells | Yes | No | NA | |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | | ft | | |
| 17. Measured total depth of well. | — | ft | | |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Rumboll
Project Number:
Task #:
Start Date: 8/23/23 Time: 1300
Field Personnel: Allison Beckett
Finish Date: Time: 1455

## WELL INFORMATION

Well ID: HEN-54
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 1314 | | | | 22.7 | 7.36 | 0.516 S | 6.16 | 5.99 | 113.9 | clear |
| 13 | 1319 | | | | 23.0 | 7.32 | 0.574 | 3.58 | 24.10 | 128.2 | |
| 13 | 1324 | 1.0 | | | 22.7 | 7.31 | 0.577 | 3.016 | 23.14 | 133.1 | |
| 13 | 1329 | | | | 22.4 | 7.31 | 0.576 | 2.71 | 19.6 | 136.4 | |
| 13 | 1334 | | | | 22.3 | 7.31 | 0.577 | 2.49 | 18.41 | 139.0 | |
| 13 | 1339 | | | | 22.4 | 7.30 | 0.577 | 2.40 | 14.50 | 140.2 | |
| | 1344 | | | | 22.3 | 7.31 | 0.577 | 2.39 | 14.88 | 140.1 | |
| | 1349 | 2.5 | | | 22.6 | 7.30 | 0.576 | 2.31 | 13.82 | 141.0 | |

## NOTES (continued)

Samples taken @ 1350

Ferrous iron sample @ 1450: 5.37

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin IL
**Inspection Date** 8/23/23 @ 1110
**Well Number** HEN-13

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | X | | | Oxidized & rusty |
| Not dented | | X | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | — ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | | X | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | | X |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | X |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW - on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING/TERMINATION FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/23/23 Time: 1055
Field Personnel: Allison Bickett
Finish Date: Time: 1255

## WELL INFORMATION

Well ID: HEN-13
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1057 | | | | 21.5 | 7.33 | 0.552 | 11.36 | 3.19 | 152.0 | Clear |
| | 1102 | | | | 21.6 | 7.37 | 0.502 | 3.67 | 3.18 | 152.7 | ↓ |
| | 1107 | 1.0 | | | 21.6 | 7.38 | 0.503 | 3.43 | 3.19 | 151.1 | |
| | 1112 | | | | 21.6 | 7.38 | 0.503 | 2.33 | 3.20 | 149.9 | |
| | 1117 | | | | 21.6 | 7.39 | 0.503 | 2.23 | 3.21 | 149.9 | |
| 25 | 1122 | 2.0 | | | 21.4 | 7.39 | 0.503 | 2.10 | 3.05 | 150.2 | ↓ |

## NOTES (continued)

samples taken @ 1125

Ferrous iron @ 1125 : Underrange

dupe @ 1125

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/23/23
**Well Number** 18D

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | ✓ | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| **Flushmount Monitoring Wells** | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | Yes | No | NA | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | ↓ | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | | | | ft |
| 16. Installed as total depth. | | | | ft |
| 17. Measured total depth of well. | | | | ft |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | X | | |
| Slope away form casing? | | ↓ | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: 2023-024 Task #: _____ Start Date: 8/23/23 Time: 1318

Field Personnel: TREMBLAY Finish Date: 8/23/23 Time: 1435

## WELL INFORMATION

Well ID: 16D

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | | | | | | | | | | | |
| PURGE | 1330 | 0.1 | | | | | | | | | CLEAR |
| | 1333 | | | | 21.3 | 7.22 | 0.692 | 2.84 | 15.81 | 169.2 | |
| | 1338 | | | | 21.3 | 7.17 | 0.688 | 0.78 | 6.81 | 79.1 | |
| | 1343 | 1.5 | | | 21.2 | 7.17 | 0.684 | 0.33 | 10.95 | 72.2 | |
| | 1348 | | | | 21.2 | 7.17 | 0.684 | 0.18 | 11.18 | 71.7 | |
| | 1353 | | | | 21.1 | 7.18 | 0.684 | 0.17 | 10.44 | 68.3 | |
| | 1358 | 2 | | | 21.2 | 7.18 | 0.685 | 0.17 | 10.26 | 68.2 | |

## NOTES (continued)

SAMPLED @ 1405

FE - UNDER

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 1115
**Well Number** HEN - 05DR

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | |
| 13. No obstructions in well? | | | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 68.07 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | | |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | | | |

Comments:

DTW: 38.73 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: HENNEPIN
Client:
Project Number: 2023 0711
Task #:
Start Date: 8/23/23 Time: 1155
Field Personnel: C TREMBLAY
Finish Date: 8/23/23 Time: 1305

## WELL INFORMATION

Well ID: 05 DR
Casing ID: inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1155 | [illegible] | 38.73 | Ø | | | | | | | |
| PURGE | 1205 | [illegible] | 38.73 | Ø | | | | | | | CLEAR |
| | 1210 | 0.75 | 38.73 | Ø | 21.2 | 7.41 | 0.632 | 0.77 | 3.81 | 169.5 | |
| | 1215 | | 38.73 | Ø | 20.6 | 7.41 | 0.631 | 0.28 | 2.54 | 162.7 | |
| | 1220 | | 38.73 | Ø | 20.6 | 7.42 | 0.631 | 0.20 | 2.67 | 165.1 | |
| | 1225 | 1.25 | 38.73 | | 20.8 | 7.41 | 0.631 | 0.18 | 2.23 | 163.5 | |
| | 1230 | | 38.73 | | 20.8 | 7.41 | 0.631 | 0.16 | 2.35 | 161.7 | |
| | 1235 | | 38.73 | | 20.8 | 7.41 | 0.631 | 0.15 | 2.51 | 160.2 | |
| | 1240 | | 38.73 | | 20.9 | 7.41 | 0.631 | 0.15 | 2.12 | 158.8 | |

## NOTES (continued)

SAMPLE @ - 1145
FI - UNDERRUN

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, I2
**Inspection Date** 8/21/23 @1105
**Well Number** HEN-05R

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | ↓ |
| 11. Is the well cap lockable? | | | ↓ |
| 12. Is there a lock present? | | | ↓ |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | ↓ | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 46.05 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | ↓ | |
| 20. No surface seal settling? | | ↓ | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 38.[illegible] pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: HEAP EP-2W | Client:
Project Number: 2023-0711 | Task #: | Start Date: 8/23/23 | Time: 1036
Field Personnel: C. TREMBLAY | Finish Date: 8/23/23 | Time: 1450

## WELL INFORMATION

Well ID: 05R
Casing ID: inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1036 | | 38.69 | | | | | | | | |
| PURGE | 1042 | 0.1 | 38.69 | 0 | | | ~~0.646~~ | ~~1.60~~ | ~~27.51~~ | ~~118.9~~ | CLEAR |
| SAMPLE | 1048 | 0.5 | 38.69 | 0 | 20.6 | 7.61 | 0.646 | 1.60 | 27.51 | 118.9 | |
| | 1053 | | 38.69 | 0 | 20.6 | 7.61 | 0.644 | 0.36 | 18.70 | 136.8 | |
| | 1058 | | 38.69 | 0 | 20.5 | 7.61 | 0.643 | 0.23 | 12.41 | 141.0 | |
| | 1103 | 1.25 | 38.69 | 0 | 20.8 | 7.61 | 0.643 | 0.19 | 8.77 | 142.8 | |
| | 1108 | | 38.69 | 0 | 20.6 | 7.61 | 0.644 | 0.17 | 7.00 | 143.7 | |
| | 1113 | | 38.69 | 0 | 20.8 | 7.61 | 0.643 | 0.15 | 5.15 | 144.0 | |
| | 1118 | 2.5 | 38.69 | 0 | 20.6 | 7.61 | 0.645 | 0.14 | 4.41 | 144.2 | |
| | 1123 | | | | 20.3 | 7.62 | 0.644 | 0.14 | 3.55 | 144.2 | |

## NOTES (continued)

SAMPLE @ - 1130
FI - 0.806 ppm

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin IL
**Inspection Date** 8/21/23 @ 1055
**Well Number** HEN-48

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| X | | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | X | | | SMALL DENT |
| Not cracked | | X | | |
| Not loose | X | | | WELL IS LOOSE |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | X | | | INNER CASE CRACKED |
| Not loose | X | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| **Flushmount Monitoring Wells** | Yes | No | NA | |
| 8. Can the lid be secured tightly? | X | | | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | Yes | No | NA | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | X | | | CRUSHED WELL |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | | X | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| | ft | | | |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | X | | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | X | | | |
| 20. No surface seal settling? | X | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

COULD NOT TAKE WATER LEVEL READING DUE TO BLOCKAGE

* Major well repair are those that require a subcontractor or separate mobilization to complete

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Subject to Change as Information is Gathered or Additional Information Becomes Available

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: HENNEPIN
Client:
Project Number: 2023 024
Task #:
Start Date: 8/23/23 Time: 0931
Field Personnel: TRW
Finish Date: Time: 1030

## WELL INFORMATION

Well ID: 48
Casing ID: inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~PURGE~~ | | | | | | | | | | | |
| PURGE | 0937 | 0.11 | | | ~~20.9~~ | ~~7.63~~ | ~~0.601~~ | ~~1.93~~ | ~~5.23~~ | ~~163.4~~ | CLEAR |
| SAMPLE | 0943 | 0.75 | | | 20.9 | 7.63 | 0.601 | 1.93 | 5.23 | 163.4 | |
| | 0948 | | | | 20.8 | 7.62 | 0.590 | 0.50 | 4.37 | 160.2 | |
| | 0953 | | | | 20.7 | 7.62 | 0.589 | 0.24 | 3.28 | 157.6 | |
| | 0958 | | | | 20.5 | 7.62 | 0.589 | 0.18 | 2.71 | 154.3 | |
| | 1003 | 2.25 | | | 20.7 | 7.62 | 0.589 | 0.15 | 2.22 | 152.0 | |
| | 1008 | | | | 20.7 | 7.62 | 0.589 | 0.13 | 2.30 | 150.3 | |
| | 1013 | | | | 20.7 | 7.62 | 0.589 | 0.12 | 2.09 | 148.7 | |
| | 1018 | 3 | | | 20.8 | 7.62 | 0.589 | 0.11 | 2.01 | 147.4 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## NOTES (continued)

* WELL HAS OBSTRUCTION INSIDE CASING. COULD NOT MEASURE WATER

SAMPLE @ - 1020

FI - UNDRNG

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 1050
**Well Number** HEN-405

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

## All Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | X | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | 39.92 ft | | | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **General Condition** | | | | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

37.92'
DTW: ~~[illegible]~~ ~~[illegible]~~ ft pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: MCMAGP2
Client:
Project Number: 2023 0711
Task #:
Start Date: 8/23/23
Time: 0820
Field Personnel: C TRUMBLY
Finish Date: 8/23/23
Time: 0978

## WELL INFORMATION

Well ID: 405
Casing ID: inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 0832 | | 37.92 | 0 | | | | | | | |
| PURGE | 0836 | 0.1 | 37.92 | 0 | | | | | | | CLEAR |
| SAMPLE | 0841 | | 37.92 | 0 | 19.0 | 7.89 | 0.581 | 2.20 | 4.25 | 149.6 | |
| | 0846 | 1.5 | 37.92 | 0 | 18.8 | 7.89 | 0.579 | 0.41 | 3.29 | 143.4 | |
| | 0851 | | 37.92 | 0 | 18.7 | 7.88 | 0.579 | 0.44 | 2.58 | 139.1 | |
| | 0856 | | 37.92 | 0 | 18.7 | 7.88 | 0.579 | 0.37 | 2.16 | 135.7 | |
| | 0901 | 2.75 | 37.92 | 0 | 18.8 | 7.88 | 0.579 | 0.37 | 2.13 | 133.5 | |

## NOTES (continued)

SAMPLE @ 0905

FE - MN DPW

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** HENNEPIN
**Inspection Date** 8/24/23
**Well Number** MW-35

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| **Flushmount Monitoring Wells** | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | Yes | No | NA | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| 16. Installed as total depth. | | X | | |
| 17. Measured total depth of well. | | X | | |
| If present, how much sediment? | ft | | | |
| | ft | | | |
| | ft | | | |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/24 Time: 0930

Field Personnel: TREMBLAY Finish Date: _____ Time: 1038

## WELL INFORMATION

Well ID: HEN 35

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PURGE | ~~0940~~ | 0.1 | | | ± 3% | ± 1 | 3% | 10% | 10% | +10 | CLEAR |
| SAMPLE | 0946 | | | | 16.5 | 7.10 | 0.926 | 8.28 | 14.30 | 159.9 | |
| | 0951 | | | | 16.2 | 7.04 | 0.918 | 6.78 | 15.97 | 169.8 | |
| | 0956 | 1.0 | | | 16.3 | 7.03 | 1.369 | 2.16 | 7.72 | 163.8 | |
| | 1001 | | | | 16.2 | 7.03 | 1.378 | 1.87 | 2.67 | 162.0 | |
| | 1006 | 2.0 | | | 16.2 | 7.03 | 1.358 | 1.47 | 2.81 | 161.7 | |
| | ~~1011~~ | | | | | | | | | | |

## NOTES (continued)

F1 - ~~DUPE~~ UNDR

SAMPLE @ 1010

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** ~~HEN~~ Hennepin, IL
**Inspection Date** 8/24/23
**Well Number** HEN-52

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | X | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | X | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |
| **Flushmount Monitoring Wells** | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | | | | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| **General Condition** | | | | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Field Personnel: Allison Beckett
Start Date: 8/24/23 Time: 0905
Finish Date: Time: 1020

## WELL INFORMATION

Well ID: HEN-S2
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0909 | 0 | | | 21.5 | 7.10 | 0.1135 | 7.57 | 5.56 | 147.1 | Clear |
| | 0914 | | | | 23.6 | 7.01 | 0.1005 | 2.04 | 5.95 | 152.3 | ↓ |
| | 0919 | 1.0 | | | 23.8 | 7.06 | 0.1609 | 1.34 | 4.68 | 149.7 | |
| | 0924 | | | | 23.9 | 7.05 | 0.1612 | 1.21 | 4.27 | 147.2 | |
| | 0929 | 2.0 | | | 23.9 | 7.04 | 0.1613 | 1.03 | 4.25 | 146.5 | |
| 25 | 0934 | | | | 24.0 | 7.04 | 0.1614 | 1.96 | 4.08 | 145.8 | |

## NOTES (continued)

Samples taken @0940

Ferrous iron @1011 : Under range

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** HENNEPIN, IL
**Inspection Date** 8/24/23 @ 1400
**Well Number** HEN-8D

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | — ft | | |

| | Yes | No | NA |
|---|---|---|---|
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Field Personnel: Allison Beckett
Start Date: 8/24/23
Time: 1140
Finish Date:
Time: 1311

## WELL INFORMATION

Well ID: HEN-88D
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1154 | | | | 18.7 | 7.03 | 1.330 | 0.45 | 4.29 | 182.5 | clear |
| | 1159 | | | | 17.7 | 6.104 | 1.426 | 2.00 | 6.88 | 193.7 | |
| | 1204 | | | | 17.7 | 6.58 | 1.433 | 0.98 | 5.34 | 194.0 | |
| | 1209 | 1.0 | | | 17.4 | 6.58 | 1.436 | 0.76 | 4.00 | 193.0 | |
| | 1214 | | | | 17.5 | 6.58 | 1.432 | 0.75 | 4.57 | 192.4 | |
| | 1219 | 2.0 | | | 17.3 | 6.59 | 1.435 | 0.63 | 4.32 | 192.0 | |

## NOTES (continued)

Samples taken @ 1225

Ferrous iron sample @ 1232: Underrange

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 3/24/23 1355
**Well Number** HEN-07

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

| All Monitoring Wells | Yes | No | NA | |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | | | ft |
| 16. Installed as total depth. | | | | ft |
| 17. Measured total depth of well. | | | | ft |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | | X | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | | X | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: On app

* Major well repair are those that require a subcontractor or separate mobilization to complete

# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client:
Project Number:
Task #:
Field Personnel: Allison Beckett
Start Date: 8/24/23 Time: 1320
Finish Date: 8/24/23 Time: 1430

## WELL INFORMATION

Well ID: HEN-07
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1332 | | | | 14.4 | 6.98 | 0.727 | 5.73 | 5.16 | 144.3 | clear |
| | 1337 | | | | 14.0 | 6.97 | 0.698 | 4.25 | 4.45 | 174.5 | |
| | 1342 | 2.0 | | | 13.9 | 6.96 | 0.701 | 4.20 | 4.09 | 176.0 | |
| | 1347 | | | | 13.9 | 6.94 | 0.700 | 4.16 | 3.85 | 178.7 | |
| | 1352 | 3.0 | | | 13.8 | 6.93 | 0.699 | 4.16 | 3.57 | 179.6 | |
| | 1357 | | | | 13.8 | 6.91 | 0.697 | 4.15 | 3.55 | 179.9 | ↓ |
| | | | | | | | | | | | |
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## NOTES (continued)

Samples taken @1400

Ferrous iron sample @1430: Under range

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/24/23 @ 1452
**Well Number** HEN-03

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | X | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | X | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |
| **Flushmount Monitoring Wells** | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| **All Monitoring Wells** | Yes | No | NA | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | — ft | | | |
| **General Condition** | Yes | No | NA | |
| 18. Concrete pad installed? | | X | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | | X | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Rambol
Project Number:
Task #:
Start Date: 8/21/24 Time: 1435
Field Personnel: Allison Bell
Finish Date: 8/21/24 Time: 1620

## WELL INFORMATION

Well ID: 08
Casing ID: inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1443 | | | | 14.7 | 6.62 | 1.228 | 1.54 | 3.85 | 194.1 | clear |
| | 1449 | | | | 14.6 | 6.58 | 1.239 | 1.30 | 3.61 | 194.1 | ↓ |
| | 1453 | 2.5 | | | 14.7 | 6.69 | 1.239 | 1.22 | 3.53 | 188.9 | |
| | 1458 | | | | 14.6 | 6.69 | 1.243 | 1.19 | 3.50 | 188.1 | |
| | 1503 | | | | 14.6 | 6.72 | 1.244 | 1.17 | 3.49 | 188.6 | |
| | 1508 | | | | 14.7 | 6.72 | 1.241 | 1.16 | 3.49 | 188.6 | ↓ |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

## NOTES (continued)

Samples taken @ 1510

Ferrous iron sampled @ 1530: under range

dupe @ 1510

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/24/23
**Well Number** 27

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | ↓ | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | ↓ | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 9/24 Time: 0820

Field Personnel: TRUMBLAY Finish Date: _____ Time: 0921

## WELL INFORMATION

Well ID: HEN 27

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ~~0824~~ | | | | | | | | | | | |
| PURGE | 0824 | 0.1 | | | | | | | | | CLEAR |
| SAMPLE | 0828 | | | | 12.9 | 7.21 | 0.819 | 0.50 | 13.75 | 0.1 | |
| | 0833 | 1 | | | 13.0 | 7.22 | 0.817 | 0.09 | 23.15 | -20.3 | |
| | 0938 | | | | 13.5 | 7.24 | 0.813 | 0.04 | 46.33 | -29.8 | |
| | 0843 | | | | 12.8 | 7.32 | 0.816 | 0.04 | 46.72 | -31.5 | |
| | 0848 | 2.75 | | | 12.4 | 7.33 | 0.816 | 0.06 | 47.09 | -32.9 | |
| | 0853 | 3.0 | | | 12.5 | 7.33 | 0.816 | 0.07 | 48.82 | -33.7 | |
| | 0854 | | | | | | | | | | |

## NOTES (continued)

FLUNDER

SAMPLE 0900

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 1200
**Well Number** HEN-02

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 47.09 ft | | |

| General Condition | Yes | No | NA |
|---|---|---|---|
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 41.84ft pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/24/2023 Time: 1025
Field Personnel: Allison Beckett
Finish Date: 8/24/2023 Time: 1120

## WELL INFORMATION

Well ID: HEN-02
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1032 | | 41.17 | | 15.4 | 7.12 | 0.1679 | 5.70 | 5.80 | 156.5 | Clear |
| | 1037 | | 41.17 | | 14.2 | 6.81 | 0.1687 | 0.63 | 5.08 | 172.7 | ↓ |
| | 1042 | 2.0 | 41.17 | | 14.0 | 6.78 | 0.1685 | 0.38 | 5.12 | 174.3 | |
| | 1047 | | 41.16 | | 14.1 | 6.81 | 0.1684 | 0.31 | 4.34 | 172.3 | |
| | 1052 | 3.0 | 41.15 | | 14.0 | 6.83 | 0.1684 | 0.27 | 3.99 | 170.8 | |
| | 1057 | | | | 14.0 | 6.83 | 0.1686 | 0.27 | 4.17 | 170.1 | |
| | 1102 | 4.0 | | | 14.0 | 6.83 | 0.1685 | 0.24 | 3.85 | 169.1 | |

## NOTES (continued)

Samples taken @ 1105

*NO FERROUS IRON SAMPLE*

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 9/21/23 @ 1010
**Well Number** HEN-XPW02-Pore

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | ~ ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 19 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 14.39 ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 1252

Field Personnel: TREMBLAY Finish Date: _____ Time: 1450

## WELL INFORMATION

Well ID: XPW02

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1256 | 4 | 14.03 | | | | | | | | |
| PURGE | 1304 | 0.1 | 14.19 | -0.16 | | | | | | | CLEAR |
| SAMPLE | 1308 | 1.0 | 14.58 | -0.39 | 19.4 | 12.03 | 3.071 | 0.91 | 89.87 | -116.0 | |
| | 1313 | | 14.92 | -0.36 | 19.2 | 12.13 | 3.111 | 0.21 | 59.77 | -155.7 | |
| | 1318 | | 15.0 | -0.18 | 19.4 | 12.14 | 3.109 | 0.14 | 40.43 | -165.2 | |
| | 1323 | 2.5 | 15.1 | -0.1 | 19.3 | 12.16 | 3.129 | 0.10 | 28.61 | -168.5 | |
| | 1328 | | 15.13 | -0.03 | 19.8 | 12.16 | 3.146 | 0.12 | 29.94 | -157.5 | |
| | 1333 | | 15.15 | -0.02 | 19.7 | 12.17 | 3.163 | 0.12 | 22.84 | -152.3 | |
| | 1338 | 3.25 | 15.15 | 0 | 19.7 | 12.17 | 3.191 | 0.12 | 23.05 | -148.4 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## NOTES (continued)

FI - 0.109

SAMPLE - 1345

EB - 1345

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 1005
**Well Number** ~~HenxPW01~~ - pore

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | ↓ | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | ↓ |
| 11. Is the well cap lockable? | | | ↓ |
| 12. Is there a lock present? | | | ↓ |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | [redacted] ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 17.13 ft | | |

| General Condition | Yes | No | NA |
|---|---|---|---|
| 18. Concrete pad installed? | | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | ↓ | |
| 20. No surface seal settling? | | ↓ | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 9.45 ft Bottom of casing: 17.13 ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 1125

Field Personnel: CKemsley Finish Date: _____ Time: 1250

## WELL INFORMATION

Well ID: XPW01

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☑ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1125 | | 9.45 | | | | | | | | |
| PURGE | 1130 | 0.1 | 9.45 | ⊘ | | | | | | | CLEAR |
| SAMPLE | 1135 | 0.75 | 9.45 | ⊘ | 19.5 | 11.30 | 0.783 | 0.37 | 9.22 | -241.6 | |
| | 1140 | | 9.45 | ⊘ | 19.5 | 11.31 | 0.795 | 0.22 | 10.51 | -242.4 | |
| | 1145 | 1.0 | 9.45 | ⊘ | 18.8 | 11.33 | 0.801 | 0.17 | 13.54 | -244.1 | |
| | 1150 | | 9.45 | ⊘ | 19.0 | 11.33 | 0.804 | 0.11 | 17.05 | -248.5 | |
| | 1155 | | 9.45 | ⊘ | 19.2 | 11.34 | 0.808 | 0.11 | 21.53 | -259.5 | |
| | 1200 | 2.25 | 9.45 | ⊘ | 17.6 | 11.39 | 0.815 | 0.11 | 54.09 | -271.9 | |
| | 1205 | | 9.45 | ⊘ | 17.7 | 11.39 | 0.817 | 0.10 | 57.11 | -278.6 | |
| | 1210 | 3.5 | 9.45 | ⊘ | 17.7 | 11.39 | 0.818 | 0.10 | 55.97 | -279.1 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

## NOTES (continued)

SAMPLE @ 1215
FD - WATER
EQUIPMENT BLANK @ 1215

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** ~~Hennepin, IL~~
**Inspection Date** 8/21/23 @ 1020
**Well Number** ~~HEN-XPW~~03-Pore

| Major wells repairs* required to maintain well integrity? | Yes | No | NA |
|---|---|---|---|
| | | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | ~ ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 19.11 ft | | |

| General Condition | Yes | No | NA |
|---|---|---|---|
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | ↓ | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 9.86 ft.

* Major well repair are those that require a subcontractor or separate mobilization to complete

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Subject to Change as Information is Gathered or Additional Information Becomes Available



# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/22 & 8/23 Time: 1455

Field Personnel: [illegible] Finish Date: _____ Time: _____

## WELL INFORMATION

Well ID: XPW03

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | 1457 | | 4.84 | | | | | | | | |
| | 1500 | 1.0 | 5.16 | -0.3 | ~~16.7~~ | ~~11.71~~ | ~~1.141~~ | ~~0.82~~ | ~~5.~~ | | |
| | 1506 | | 5.16 | Ø | 16.7 | 11.71 | 1.141 | 0.82 | 5.92 | -3.2 | |
| | 1511 | | 5.16 | Ø | 16.6 | 11.79 | 1.144 | 0.11 | 13.62 | -22.1 | |
| | 1516 | 2 | 5.16 | Ø | 16.7 | 11.79 | 1.146 | 0.11 | 9.31 | -30.8 | |
| | 1521 | | 5.16 | Ø | 16.8 | 11.78 | 1.149 | 0.10 | 9.28 | -37.3 | |
| | 1526 | 2.5 | 5.16 | Ø | 16.7 | 11.79 | 1.149 | 0.11 | 9.97 | -41.9 | |
| | 1531 | | | | | | | | | | |
| | 1536 | | | | | | | | | | |

## NOTES (continued)

FT UNDR

SAMPLE — 1530

EB — 1530

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin
**Inspection Date** 8/21/23 @0955
**Well Number** 10

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | X | | X |
| 9. Does the lid have a gasket that seals? | | | X |
| 10. No water in the flushmount? | | | X |
| 11. Is the well cap lockable? | | | X |
| 12. Is there a lock present? | | | X |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | 48.65 ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 48.28 ft Bottom of Casing/top of pump 48.65

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/24/23 Time: 0810
Field Personnel: Allison Beckett
Finish Date: 8/24/23 Time: 6900

## WELL INFORMATION

Well ID: HEN - 10
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0810 | | 48.15 | | 22.8 | 7.15 | 0.619 | 1.52 | 4.08 | 138.6 | clear |
| | 0821 | | 48.12 | | 23.1 | 7.06 | 0.622 | 0.73 | 4.50 | 144.6 | ↓ |
| | 0826 | 2.0 | 48.12 | | 23.1 | 7.05 | 0.624 | 0.67 | 7.00 | 144.2 | |
| | 0831 | | 48.12 | | 23.1 | 7.04 | 0.625 | 0.55 | 10.15 | 142.8 | |
| | 0836 | 3.0 | 48.11 | | 23.2 | 7.04 | 0.625 | 0.53 | 4.50 | 141.8 | |
| 2.5 | 0841 | 3.5 | 48.11 | | 23.2 | 7.04 | 0.625 | 0.52 | 3.90 | 140.9 | ↓ |

## NOTES (continued)

Samples taken @ 0845

*NO FERROUS IRON SAMPLE*

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @ 0930
**Well Number** 50

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | ✓ | | |
| Not dented | | ✓ | | |
| Not cracked | | ✓ | | |
| Not loose | | ✓ | | |
| 2. Inner casing | | | | |
| Not corroded | | ✓ | | |
| Not dented | | ✓ | | |
| Not cracked | | ✓ | | |
| Not loose | | ✓ | | |
| 3. Are there weep holes in outer casing? | | ✓ | | |
| 4. Weep holes able to drain? | | ✓ | | |
| 5. Is there a lockable cap present? | | ✓ | | |
| 6. Is there a lock present? | | ✓ | | |
| 7. Bumper posts in good condition? | | ✓ | | |
| **Flushmount Monitoring Wells** | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | X | |
| **All Monitoring Wells** | | | | |
| **Downhole Condition** | | | X | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| **General Condition** | | | | |
| 18. Concrete pad installed? | ✓ | | | |
| 19 . Concrete pad | ✓ | | | |
| Slope away form casing? | | ✓ | | |
| Not deteriorated? | | ✓ | | |
| Not heaved or below surrounding grade? | | ✓ | | |
| 20. No surface seal settling? | ✓ | | | |
| 21. Well clearly visible and labeled? | ✓ | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/25/23 Time: 1055
Field Personnel: Alison Bricker
Finish Date: Time: 1200

## WELL INFORMATION

Well ID: HEN-50
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 0958 | | | | 16.8 | 7.53 | 0.064 | 0.01 | 364.79 | 81.2 | clear |
| 11 | 1003 | | | | 16.7 | 7.56 | 0.063 | 0.59 | 384.0 | 112.5 | ↓ |
| 11 | 1009 | 2.0 | | | 16.8 | 7.49 | 0.064 | 0.17 | 4.33 | 109.3 | |
| 11 | 1013 | | | | 16.9 | 7.49 | 0.065 | 0.14 | 4.31 | 98.5 | |
| 11 | 1018 | 4.0 | | | 16.7 | 7.48 | 0.065 | 0.12 | 4.06 | 87.2 | |
| 11 | 1023 | | | | 16.7 | 7.47 | 0.065 | 0.12 | 3.98 | 88.0 | |

## NOTES (continued)

Samples taken @ 1125

Ferrous iron sample @ 1140: Underrange

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/25/23
**Well Number** HEN 34

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | | X | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |
| | ft | | |
| **General Condition** | Yes | No | NA |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/25/23 Time: 1053

Field Personnel: TREMBLEY Finish Date: 8/25/23 Time: 1145

## WELL INFORMATION

Well ID: HEN 34

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PURGE | ~~1055~~ 1100 | 0.1 | | | ~~13.2~~ 13.7 | ~~7.21~~ 7.21 | ~~0.948~~ 0.948 | ~~2.06~~ 2.06 | ~~14.02~~ 14.02 | ~~116.2~~ -116.2 | ~~CLEAR~~ CLEAR |
| | 1105 | | | | 12.8 | 7.09 | 0.966 | 0.25 | 7.80 | -108.6 | |
| | 1110 | 2.5 | | | 12.8 | 7.08 | 0.969 | 0.21 | 6.54 | -110.4 | |
| | 1115 | | | | 12.9 | 7.08 | 0.971 | 0.22 | 5.51 | -111.2 | |
| | 1120 | | | | 12.8 | 7.08 | 0.972 | 0.20 | 4.81 | -110.7 | |
| | 1125 | | | | | | | | | | |
| | 1130 | | | | | | | | | | |

## NOTES (continued)

FI - UNDERAN

SAMPLE @ 1125

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/25/23
**Well Number** HEN 49

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

**Stick-up Monitoring Wells**

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | N/A | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

**Flushmount Monitoring Wells**

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

**All Monitoring Wells**

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | | X | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |
| | ft | | |
| **General Condition** | Yes | No | NA |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

BATTERY WAS REPLACED + WOULD NOT CONNECT. WELL WAS GAUGED MANUALLY

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number: _____ Task #: _____
Start Date: 8/25/23 Time: 0925
Field Personnel: Allison Blewett Finish Date: 8/25/23 Time: 1055

## WELL INFORMATION

Well ID: HEN-49
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 09 | 1032 | | 19.65 | | 15.5 | 7.21 | 0.700 | 1.40 | 72.1 | -1.5 | Cloudy |
| 09 | 1037 | | 19.65 | | 15.3 | 7.13 | 0.698 | 0.22 | 92.38 | 38.0 | Brown/murky |
| 09 | 1042 | 2.0 | 19.65 | | 15.4 | 7.12 | 0.1098 | 0.17 | 110.79 | 48.6 | |
| 09 | 1047 | | 19.64 | | 15.4 | 7.12 | 0.1098 | 0.15 | 122.4 | 57.7 | |
| 09 | 1052 | | 19.65 | | 15.4 | 7.12 | 0.697 | 0.13 | 121.9 | 58.8 | |
| 09 | 1057 | 5.0 | 19.64 | | 15.4 | 7.12 | 0.1098 | 0.12 | 122.9 | 59.1 | |
| 10 | 1102 | | 19.65 | | 15.3 | 7.12 | 0.098 | 0.11 | 123.6 | 58.2 | |

## NOTES (continued)

Sample taken @ 1105

Ferrous iron sample @ 1030: Underrange

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin IL
**Inspection Date** 8/23/23 0815
**Well Number** #EN-10

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | — ft | | |
| **General Condition** | | | |
| 18. Concrete pad installed? | X | X | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | | X |
| Not deteriorated? | | | |
| Not heaved or below surrounding grade? | | | |
| 20. No surface seal settling? | | | X |
| 21. Well clearly visible and labeled? | X | | |

Comments:

DTW: 53.90, dead batteries/transducer is fried

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

### PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/28/23 Time: 0800
Field Personnel: Allison Beckett
Finish Date: Time: 0915

### WELL INFORMATION

Well ID: HEN-16
Casing ID: 2 inches

### EVENT TYPE

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

### WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0808 | | 53.90 | | 19.9 | 7.47 | 0.550 | 8.13 | 4.40 | 114.5 | clear |
| | 0813 | | 53.90 | | 22.5 | 7.23 | 0.553 | 1.41 | 3.88 | 131.4 | |
| | 0818 | | 53.90 | | 22.7 | 7.23 | 0.554 | 1.21 | 3.92 | 131.1 | |
| | 0823 | 1.0 | 53.90 | | 22.8 | 7.23 | 0.556 | 0.53 | 3.85 | 126.8 | |
| | 0828 | | 53.90 | | 22.8 | 7.23 | 0.556 | 0.41 | 3.89 | 123.5 | |
| | 0833 | 2.0 | 53.90 | | 22.8 | 7.23 | 0.556 | 0.37 | 3.99 | 122.7 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

### NOTES (continued)

Samples taken @ 0835

Ferrous iron sample @0850 : Under range

### ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/28/23 @ 0915
**Well Number** ~~HEN-17~~

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| Stick-up Monitoring Wells | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

| Flushmount Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | X |
| 9. Does the lid have a gasket that seals? | | | ↓ |
| 10. No water in the flushmount? | | | ↓ |
| 11. Is the well cap lockable? | | | ↓ |
| 12. Is there a lock present? | | | ↓ |

| All Monitoring Wells | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | — | — | — |
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | |
| 15. No sediment in bottom of well? | | ↓ | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | — ft | | |

| General Condition | Yes | No | NA | |
|---|---|---|---|---|
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | — | — | — | |
| Slope away form casing? | | X | | |
| Not deteriorated? | X | | | cracked |
| Not heaved or below surrounding grade? | X | | | cracked |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number:
Task #:
Start Date: 8/28/23 Time: 0905
Field Personnel: Allison Burkett
Finish Date: Time: 1030

## WELL INFORMATION

Well ID: HEN-17
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0911 | | | | 22.4 | 7.15 | 0.565 | 5.91 | 5.06 | 137.9 | clear |
| | 0916 | | | | 22.7 | 7.35 | 0.514 | 4.13 | 3.97 | 140.7 | ↓ |
| | 0921 | | | | 22.5 | 7.35 | 0.508 | 10.06 | 4.08 | 144.3 | |
| | 0926 | 1.0 | | | 22.5 | 7.35 | 0.508 | 10.00 | 3.96 | 146.5 | |
| | 0931 | | | | 22.4 | 7.34 | 0.507 | 5.88 | 3.99 | 147.6 | |
| | 0936 | 2.0 | | | 22.4 | 7.34 | 0.506 | 5.76 | 4.02 | 148.2 | ↓ |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

## NOTES (continued)

Samples taken @ 0940

Ferrous iron sample @ 0945: under range

dupe @ 0940

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/28
**Well Number** 03R

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | X | | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| 8. Can the lid be secured tightly? | | | |
| 9. Does the lid have a gasket that seals? | | | |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | |
| 12. Is there a lock present? | | | |

## All Monitoring Wells

| | Yes | No | NA |
|---|---|---|---|
| **Downhole Condition** | | | |
| 12. Water level measuring point clearly marked? | | X | |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | | X | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |
| | ft | | |
| **General Condition** | Yes | No | NA |
| 18. Concrete pad installed? | X | | |
| 19 . Concrete pad | | | |
| Slope away form casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/28 Time: 0906

Field Personnel: TREMBLAY Finish Date: 8/28 Time: 1121

## WELL INFORMATION

Well ID: 037

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PURGE | 0915 | 0.1 | | | | | | | ~~10.85~~ | ~~115~~ | CLEAR |
| SAMPLE | 0920 | | | | 16.2 | 7.22 | 0.655 | 0.81 | 10.85 | ~~[illegible]~~ 141.1 | |
| | 0925 | 1.0 | | | 18.2 | 7.21 | 0.653 | 0.32 | 5.46 | 137.8 | |
| | 0930 | | | | 16.2 | 7.21 | 0.653 | 0.22 | 3.81 | 132.9 | |
| | 0935 | | | | 18.3 | 7.21 | 0.653 | 0.22 | 2.99 | 129.4 | |
| | 0940 | 2.25 | | | 16.3 | 7.20 | 0.652 | 0.21 | 2.54 | 126.9 | |
| | 0945 | | | | | | | | | | |
| | 0950 | | | | | | | | | | |
| | 0955 | | | | | | | | | | |

## NOTES (continued)

FT - UNDER SAMPLER 0915

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site**
**Inspection Date** 8/28/23
**Well Number** 18S

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

## Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

## Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| 8. Can the lid be secured tightly? | | | | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

## All Monitoring Wells

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| 16. Installed as total depth. | | X | | |
| 17. Measured total depth of well. | | X | | |
| If present, how much sediment? | ft | | | |
| | ft | | | |
| | ft | | | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **General Condition** | | | | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

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# WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

## PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: 8/28/23 Time: 0800

Field Personnel: TRANSLY Finish Date: 8/28/23 Time: 0905

## WELL INFORMATION

Well ID: 185

Casing ID: _____ inches

## EVENT TYPE

☐ Well Development ☒ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PURGE | 0810 | 0.25 | | | | | | | | | CLEAR |
| | 0811 | | | | 16.8 | 7.52 | 0.666 | 2.30 | 5.45 | 104.0 | |
| | 0816 | | | | 16.7 | 7.39 | 0.661 | 0.42 | 3.20 | 103.2 | |
| | 0821 | | | | 16.8 | 7.39 | 0.661 | 0.26 | 2.61 | 98.1 | |
| | 0826 | 2.25 | | | 16.8 | 7.38 | 0.661 | 0.22 | 2.49 | 95.5 | |
| | 0831 | 2.5 | | | 16.8 | 7.38 | 0.661 | 0.20 | 2.46 | 94.1 | |
| | 0836 | | | | | | | | | | |
| | 0841 | | | | | | | | | | |
| | 0846 | | | | | | | | | | |

## NOTES (continued)

FI - UNDR

0835

SAMPLE

## ABBREVIATIONS

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

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# Monitoring Well Evaluation Checklist

**Site** Hennepin, IL
**Inspection Date** 8/21/23 @1125
**Well Number** HEN-455

Major wells repairs* required to maintain well integrity?

| Yes | No | NA |
|---|---|---|
| | X | |

| | Yes | No | NA | Comments |
|---|---|---|---|---|
| **Stick-up Monitoring Wells** | | | | |
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | ↓ | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | ↓ | ↓ | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |
| **Flushmount Monitoring Wells** | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↓ | |
| **All Monitoring Wells** | | | | |
| **Downhole Condition** | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | 30.19 ft | | | |
| **General Condition** | | | | |
| 18. Concrete pad installed? | X | | | |
| 19 . Concrete pad | | | | |
| Slope away form casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: 18.98 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

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## PROJECT INFORMATION

Site: Hennepin, IL
Client: Ramboll
Project Number: _____ Task #: _____
Start Date: 8/28/23 Time: 1040
Field Personnel: Allison Beckett
Finish Date: 8/28/23 Time: 1140

## WELL INFORMATION

Well ID: HEN-455
Casing ID: 2 inches

## EVENT TYPE

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

## WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1044 | | 18.98 | | 19.3 | 7.32 | 0.706 | 3.27 | 9.13 | 57.9 | clear |
| | 1049 | | 18.97 | | 19.1 | 7.17 | 0.641 | 0.25 | 148.24 | 108.9 | Brown/murky |
| | 1054 | 2.5 | 18.98 | | 19.1 | 7.16 | 0.640 | 0.22 | 130.16 | 111.7 | ↓ |
| | 1059 | | 18.98 | | 19.1 | 7.16 | 0.640 | 0.19 | 89.9 | 116.1 | |
| | 1104 | | 18.98 | | 19.1 | 7.16 | 0.640 | 0.18 | 87.30 | 118.6 | |
| | 1109 | 5.0 | 18.98 | | 19.1 | 7.16 | 0.640 | 0.17 | 54.30 | 119.2 | |
| | 1114 | | 18.98 | | 19.1 | 7.16 | 0.640 | 0.17 | 55.06 | 120.2 | |

## NOTES (continued)

Samples taken @ 1115

Ferrous iron sample @1130: underrange

## ABBREVIATIONS

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

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

| Well | Unique ID | Date | Time | Measured Depth to Water (ft bmp) | On-site Transducer Data | | | | | Comments | Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Data Logger Serial No. | Does Data Logger Serial No. Match? | WL Reading on Transducer (ft) | Data down-loaded? | Batt (H/M/L) | | |
| 03R | HEN_03R | 8/28/2023 | 9:06 | See transducer reading | 21615140 | y | 448.07 | y | h | | CT |
| 07 | HEN_07 | 8/24/2023 | 13:20 | See transducer reading | 21615139 | y | 450.45 | y | h | | AB |
| 08 | HEN_08 | 8/24/2023 | 14:35 | See transducer reading | 21615138 | y | 448.33 | y | h | | AB |
| 08D | HEN_08&D | 8/24/2023 | 11:40 | See transducer reading | 21615598 | y | 448.09 | y | h | | AB |
| 12 | HEN_12 | 8/23/2023 | 9:30 | See transducer reading | 21615520 | y | 448.17 | y | h | | AB |
| 13 | HEN_13 | 8/23/2023 | 10:55 | See transducer reading | 21615515 | y | 448.22 | y | h | | AB |
| 16 | HEN_16 | 8/28/2023 | 8:00 | 53.9 | 21615137 | y | N/A | n | h | Replaced battery, issues connecting to hobo link, manually gauged well. | AB |
| 17 | HEN_17 | 8/28/2023 | 9:05 | See transducer reading | 21615500 | y | 449.15 | y | h | | AB |
| 18S | HEN_18#S | 8/28/2023 | 8:00 | See transducer reading | 21615482 | y | 448.12 | y | h | | CT |
| 18D | HEN_18&D | 8/23/2023 | 13:18 | See transducer reading | 21615609 | y | 448.08 | y | h | | CT |
| 21R | HEN_21R | 8/22/2023 | 13:00 | See transducer reading | 21615613 | y | 447.73 | y | h | | AB |
| 22 | HEN_22 | 8/25/2023 | 8:15 | See transducer reading | 21615497 | y | 447.26 | y | h | | AB |
| 22D | HEN_22&D | 8/22/2023 | 8:00 | See transducer reading | 21564134 | y | 447.57 | y | h | | AB |
| 23 | HEN_23 | 8/22/2023 | 10:40 | See transducer reading | 21615600 | y | 447.92 | y | h | | AB |
| 27 | HEN_27 | 8/24/2023 | 8:20 | See transducer reading | 21615576 | y | 447.77 | y | h | | CT |
| 32 | HEN_32 | 8/22/2023 | 10:35 | See transducer reading | 21615487 | y | 447.64 | y | h | | CT |

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

| Well | Unique ID | Date | Time | Measured Depth to Water (ft bmp) | On-site Transducer Data | | | | | Comments | Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Data Logger Serial No. | Does Data Logger Serial No. Match? | WL Reading on Transducer (ft) | Data down-loaded? | Batt (H/M/L) | | |
| 34 | HEN_34 | 8/25/2023 | 10:53 | See transducer reading | 21615509 | y | 440.58 | y | h | Replaced battery 8/25/23 | CT |
| 35 | HEN_35 | 8/24/2023 | 9:30 | See transducer reading | 21615510 | y | 447.64 | y | h | | CT |
| 46 | HEN_46 | 8/23/2023 | 8:10 | See transducer reading | 21615491 | y | 448.28 | y | h | | AB |
| 47 | HEN_47 | 8/23/2023 | 14:55 | See transducer reading | 21615505 | y | 447.94 | y | h | | AB |
| 49 | HEN_49 | 8/25/2023 | 9:25 | 19.65 | 21615490 | y | N/A | n | h | Replaced battery, issues connecting to hobo link, manually gauged well. | AB |
| 50 | HEN_50 | 8/25/2023 | 10:55 | See transducer reading | 21615489 | y | -0.03 | y | h | | AB |
| 51 | HEN_51 | 8/22/2023 | 15:00 | See transducer reading | 21615608 | y | 447.74 | y | h | | AB |
| 52 | HEN_52 | 8/24/2023 | 9:05 | See transducer reading | 21615145 | y | 448.12 | y | h | | AB |
| 54 | HEN_54 | 8/23/2023 | 13:00 | See transducer reading | 21615143 | y | 448.03 | y | h | | AB |
| 55 | HEN_55 | 8/23/2023 | 12:55 | See transducer reading | 21615612 | y | corrupted file | y | h | Data was downloaded, data did not save correctly/ corrupt | AB |

U: 6/21/23 GKJ

eurofins | Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 10/11/2023 6:27:15 PM

## JOB DESCRIPTION

HEN-23Q3
SDG NUMBER HEN_SUP_000_0 RAD

## JOB NUMBER

500-238579-10

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.



my EOL

# Eurofins Chicago

## 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 Chicago Project Manager.

## Authorization

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Authorized for release by
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## Job ID: 500-238579-10

### Laboratory: Eurofins Chicago

**Narrative**

**Job Narrative**
**500-238579-10**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626172:
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.
HEN_25 (500-238579-7), HEN_26 (500-238579-8), HEN_26_MS (500-238579-8[MS]), HEN_26_MSD (500-238579-8[MSD]), (LCS 160-626172/2-A) and (MB 160-626172/1-A).

Method 903.0: Radium-226 batch 626178:
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.
HEN_XPW01_pore (500-238579-36), HEN_XPW01_pore_EB (500-238579-37), HEN_XPW02_pore (500-238579-38), HEN_XPW02_pore_EB (500-238579-39), HEN_XPW03_pore (500-238579-40), HEN_XPW03_pore_EB (500-238579-41), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626179:
The following sample(s) 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.
HEN_XPW01_pore (500-238579-36).

Method 904.0: Radium-228 prep batch 160-626179:
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. HEN_XPW01_pore (500-238579-36), HEN_XPW01_pore_EB (500-238579-37), HEN_XPW02_pore (500-238579-38), HEN_XPW02_pore_EB (500-238579-39), HEN_XPW03_pore (500-238579-40), HEN_XPW03_pore_EB (500-238579-41), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD) .

Method 904.0: Radium-228 prep batch 160-626177:
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. HEN_25 (500-238579-7), HEN_26 (500-238579-8), HEN_26_MS (500-238579-8[MS]), HEN_26_MSD (500-238579-8[MSD]), (LCS 160-626177/2-A) and (MB 160-626177/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-14**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

**RAD**

Method 903.0: Radium-226 batch 626180:
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.
HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:
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.
HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:
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.
HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_257_FB (500-238579-42), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:
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. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:
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. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_257_FB (500-238579-42), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:
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. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-16**

**Receipt**

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

Method 903.0: Radium-226 batch 626180:
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.
HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:
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.
HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:
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.
HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:
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. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:
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. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:
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. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-18**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626180:
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

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

applied as the Activity Reference Date.
HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:
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.
HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:
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.
HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:
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. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:
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. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:
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. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-2**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626172
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.
HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

Method 903.0: Radium-226 batch 626178
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.
HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

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. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

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. HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-21**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626180
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.
HEN_17-FD (500-238579-60), (LCS 160-626180/2-A), (MB 160-626180/1-A), (500-238579-T-53-A), (500-238579-T-53-B MS) and (500-238579-T-53-C MSD)

Method 903.0: Radium-226 batch 626172
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.
HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

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.
HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD)

Method 904.0: Radium-228 prep batch 160-626182:

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Analytical results are reported with the detection limit achieved.HEN_17-FD (500-238579-60)

Method 904.0: Radium-228 prep batch 160-626182:

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. HEN_17-FD (500-238579-60), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 prep batch 160-626179:

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. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD)

Method 904.0: Radium-228 prep batch 160-626177:

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. HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-23**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626180
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.
HEN_17-FD (500-238579-60), (LCS 160-626180/2-A), (MB 160-626180/1-A), (500-238579-T-53-A), (500-238579-T-53-B MS) and (500-238579-T-53-C MSD)

Method 903.0: Radium-226 batch 626172
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

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.
HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178
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.
HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), 845_803_FB (500-238579-50), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD)

Method 904.0: Radium-228 prep batch 160-626182:

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Analytical results are reported with the detection limit achieved.HEN_17-FD (500-238579-60)

Method 904.0: Radium-228 prep batch 160-626182:

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. HEN_17-FD (500-238579-60), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 prep batch 160-626179:

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. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), 845_803_FB (500-238579-50), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD)

Method 904.0: Radium-228 prep batch 160-626177:

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. HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-4**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626172

Case Narrative

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

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.
HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178
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.
HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

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. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

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. HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Narrative**

**Job Narrative**
**500-238579-6**

**Receipt**
The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1º C, 0.1º C, 0.2º C, 0.3º C, 0.4º C, 0.5º C, 0.6º C, 0.7º C, 0.8º C, 1.0º C, 1.2º C, 1.2º C, 1.3º C, 1.3º C, 1.3º C, 1.6º C, 1.7º C, 1.7º C, 1.7º C, 1.7º C, 2.0º C, 2.0º C, 2.0º C, 2.8º C, 2.9º C, 2.9º C, 3.0º C and 3.7º C.

**RAD**
Method 903.0: Radium-226 batch 626172
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.
HEN_21R (500-238579-1), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

## Job ID: 500-238579-10 (Continued)

### Laboratory: Eurofins Chicago (Continued)

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.
HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

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. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

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. HEN_21R (500-238579-1), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

| 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: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 500-238579-1 | HEN_21R | Water | 08/22/23 13:45 | 08/23/23 10:00 |
| 500-238579-2 | HEN_22&D | Water | 08/22/23 09:10 | 08/23/23 10:00 |
| 500-238579-3 | HEN_23 | Water | 08/22/23 11:20 | 08/23/23 10:00 |
| 500-238579-4 | HEN_23_FD | Water | 08/22/23 11:20 | 08/23/23 10:00 |
| 500-238579-5 | HEN_32 | Water | 08/22/23 11:15 | 08/23/23 10:00 |
| 500-238579-6 | HEN_51 | Water | 08/22/23 15:56 | 08/23/23 10:00 |
| 500-238579-7 | HEN_25 | Water | 08/22/23 14:30 | 08/23/23 10:00 |
| 500-238579-8 | HEN_26 | Water | 08/22/23 15:35 | 08/23/23 10:00 |
| 500-238579-13 | HEN_18&D | Water | 08/23/23 14:05 | 08/24/23 09:38 |
| 500-238579-15 | HEN_12 | Water | 08/23/23 10:10 | 08/24/23 09:38 |
| 500-238579-16 | HEN_13 | Water | 08/23/23 11:25 | 08/24/23 09:38 |
| 500-238579-18 | HEN_46 | Water | 08/23/23 08:55 | 08/24/23 09:38 |
| 500-238579-19 | HEN_47 | Water | 08/23/23 15:30 | 08/24/23 09:38 |
| 500-238579-20 | HEN_54 | Water | 08/23/23 13:50 | 08/24/23 09:38 |
| 500-238579-25 | HEN_52 | Water | 08/24/23 09:40 | 08/25/23 09:32 |
| 500-238579-26 | HEN_27 | Water | 08/24/23 09:00 | 08/25/23 09:32 |
| 500-238579-27 | HEN_35 | Water | 08/24/23 10:10 | 08/25/23 09:32 |
| 500-238579-28 | HEN_07 | Water | 08/24/23 14:00 | 08/25/23 09:32 |
| 500-238579-30 | HEN_08 | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-32 | HEN_08&D | Water | 08/24/23 12:25 | 08/25/23 09:32 |
| 500-238579-34 | HEN_08_FD | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-36 | HEN_XPW01_pore | Water | 08/24/23 12:15 | 08/25/23 09:32 |
| 500-238579-37 | HEN_XPW01_pore_EB | Water | 08/24/23 12:15 | 08/25/23 09:32 |
| 500-238579-38 | HEN_XPW02_pore | Water | 08/24/23 13:45 | 08/25/23 09:32 |
| 500-238579-39 | HEN_XPW02_pore_EB | Water | 08/24/23 13:45 | 08/25/23 09:32 |
| 500-238579-40 | HEN_XPW03_pore | Water | 08/24/23 15:30 | 08/25/23 09:32 |
| 500-238579-41 | HEN_XPW03_pore_EB | Water | 08/24/23 15:30 | 08/25/23 09:32 |
| 500-238579-42 | HEN_257_FB | Water | 08/25/23 12:00 | 08/25/23 15:00 |
| 500-238579-44 | HEN_34 | Water | 08/25/23 11:25 | 08/25/23 15:00 |
| 500-238579-45 | HEN_49 | Water | 08/25/23 10:05 | 08/25/23 15:00 |
| 500-238579-46 | HEN_22 | Water | 08/25/23 08:50 | 08/25/23 15:00 |
| 500-238579-47 | HEN_50 | Water | 08/25/23 11:25 | 08/25/23 15:00 |
| 500-238579-50 | 845_803_FB | Water | 08/28/23 12:00 | 08/28/23 15:00 |
| 500-238579-51 | HEN_18#S | Water | 08/28/23 08:35 | 08/28/23 15:00 |
| 500-238579-53 | HEN_03R | Water | 08/28/23 09:45 | 08/28/23 15:00 |
| 500-238579-56 | HEN_45#S | Water | 08/28/23 11:15 | 08/28/23 15:00 |
| 500-238579-58 | HEN_16 | Water | 08/28/23 08:35 | 08/28/23 15:00 |
| 500-238579-59 | HEN_17 | Water | 08/28/23 09:40 | 08/28/23 15:00 |
| 500-238579-60 | HEN_17-FD | Water | 08/28/23 09:40 | 08/28/23 15:00 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_21R
**Date Collected: 08/22/23 13:45**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-1
**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** | **0.614** | | 0.187 | 0.195 | 1.00 | 0.167 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| **Radium-226** | **0.614** | | 0.187 | 0.195 | 1.00 | 0.167 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| **Radium-226** | **0.614** | | 0.187 | 0.195 | 1.00 | 0.167 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:27* | *1* |
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:27* | *1* |
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:27* | *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 | 0.209 | U | 0.489 | 0.489 | 1.00 | 0.855 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.209 | U | 0.489 | 0.489 | 1.00 | 0.855 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.209 | U | 0.489 | 0.489 | 1.00 | 0.855 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.823 | U | 0.524 | 0.526 | 5.00 | 0.855 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.823 | U | 0.524 | 0.526 | 5.00 | 0.855 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.823 | U | 0.524 | 0.526 | 5.00 | 0.855 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_22&D
**Date Collected: 08/22/23 09:10**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-2
**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** | **0.710** | | 0.165 | 0.177 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| **Radium-226** | **0.710** | | 0.165 | 0.177 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:28* | *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 | 0.548 | U | 0.400 | 0.404 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.548 | U | 0.400 | 0.404 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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** | | 0.433 | 0.441 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **1.26** | | 0.433 | 0.441 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_23

**Date Collected: 08/22/23 11:20**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-3

**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 | 0.0778 | U | 0.0660 | 0.0664 | 1.00 | 0.0940 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0778 | U | 0.0660 | 0.0664 | 1.00 | 0.0940 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0778 | U | 0.0660 | 0.0664 | 1.00 | 0.0940 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *96.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *96.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *96.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:28* | *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 | 0.177 | U | 0.379 | 0.379 | 1.00 | 0.658 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.177 | U | 0.379 | 0.379 | 1.00 | 0.658 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.177 | U | 0.379 | 0.379 | 1.00 | 0.658 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *96.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *96.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *96.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *78.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *78.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *78.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.255 | U | 0.385 | 0.385 | 5.00 | 0.658 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.255 | U | 0.385 | 0.385 | 5.00 | 0.658 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.255 | U | 0.385 | 0.385 | 5.00 | 0.658 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_23_FD
**Date Collected: 08/22/23 11:20**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-4
**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 | 0.0729 | U | 0.0738 | 0.0741 | 1.00 | 0.115 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0729 | U | 0.0738 | 0.0741 | 1.00 | 0.115 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0729 | U | 0.0738 | 0.0741 | 1.00 | 0.115 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.0* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *1* |
| *Ba Carrier* | *94.0* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *1* |
| *Ba Carrier* | *94.0* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *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 | 0.118 | U | 0.314 | 0.314 | 1.00 | 0.558 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.118 | U | 0.314 | 0.314 | 1.00 | 0.558 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.118 | U | 0.314 | 0.314 | 1.00 | 0.558 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *94.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *94.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *80.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *80.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *80.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.191 | U | 0.323 | 0.323 | 5.00 | 0.558 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.191 | U | 0.323 | 0.323 | 5.00 | 0.558 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.191 | U | 0.323 | 0.323 | 5.00 | 0.558 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_32
**Date Collected: 08/22/23 11:15**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-5
**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 | 0.0898 | U | 0.0943 | 0.0947 | 1.00 | 0.151 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0898 | U | 0.0943 | 0.0947 | 1.00 | 0.151 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0898 | U | 0.0943 | 0.0947 | 1.00 | 0.151 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *92.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *1* |
| *Ba Carrier* | *92.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *1* |
| *Ba Carrier* | *92.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *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 | 0.225 | U | 0.373 | 0.373 | 1.00 | 0.636 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.225 | U | 0.373 | 0.373 | 1.00 | 0.636 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.225 | U | 0.373 | 0.373 | 1.00 | 0.636 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *92.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *92.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *92.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *78.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *78.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *78.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.315 | U | 0.385 | 0.385 | 5.00 | 0.636 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.315 | U | 0.385 | 0.385 | 5.00 | 0.636 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.315 | U | 0.385 | 0.385 | 5.00 | 0.636 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_51
**Date Collected: 08/22/23 15:56**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-6
**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** | **0.712** | | 0.206 | 0.216 | 1.00 | 0.192 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| **Radium-226** | **0.712** | | 0.206 | 0.216 | 1.00 | 0.192 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| **Radium-226** | **0.712** | | 0.206 | 0.216 | 1.00 | 0.192 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *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 | 0.323 | U | 0.445 | 0.446 | 1.00 | 0.746 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.323 | U | 0.445 | 0.446 | 1.00 | 0.746 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.323 | U | 0.445 | 0.446 | 1.00 | 0.746 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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** | **1.03** | | 0.490 | 0.496 | 5.00 | 0.746 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **1.03** | | 0.490 | 0.496 | 5.00 | 0.746 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **1.03** | | 0.490 | 0.496 | 5.00 | 0.746 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_25
**Date Collected: 08/22/23 14:30**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-7
**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 | 0.124 | U | 0.0917 | 0.0924 | 1.00 | 0.132 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *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 | 0.0383 | U | 0.333 | 0.333 | 1.00 | 0.610 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *79.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.162 | U | 0.345 | 0.346 | 5.00 | 0.610 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_26

**Date Collected: 08/22/23 15:35**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-8

**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 | 0.306 | | 0.132 | 0.134 | 1.00 | 0.159 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:34* | *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 | -0.320 | U | 0.304 | 0.306 | 1.00 | 0.654 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.306 | U | 0.331 | 0.334 | 5.00 | 0.654 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_18&D
**Date Collected: 08/23/23 14:05**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-13
**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** | **0.141** | | 0.0860 | 0.0870 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| **Radium-226** | **0.141** | | 0.0860 | 0.0870 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| **Radium-226** | **0.141** | | 0.0860 | 0.0870 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *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 | 0.208 | U | 0.357 | 0.357 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.208 | U | 0.357 | 0.357 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.208 | U | 0.357 | 0.357 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *80.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *80.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *80.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.349 | U | 0.367 | 0.367 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.349 | U | 0.367 | 0.367 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.349 | U | 0.367 | 0.367 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_12
**Date Collected: 08/23/23 10:10**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-15
**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 | 0.0183 | U | 0.0574 | 0.0574 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.0183 | U | 0.0574 | 0.0574 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *95.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *1* |
| *Ba Carrier* | *95.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *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 | 0.273 | U | 0.439 | 0.440 | 1.00 | 0.743 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.273 | U | 0.439 | 0.440 | 1.00 | 0.743 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *95.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *95.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *80.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *80.0* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.291 | U | 0.443 | 0.444 | 5.00 | 0.743 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.291 | U | 0.443 | 0.444 | 5.00 | 0.743 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_13
**Date Collected: 08/23/23 11:25**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-16
**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 | 0.0389 | U | 0.0708 | 0.0709 | 1.00 | 0.126 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.0389 | U | 0.0708 | 0.0709 | 1.00 | 0.126 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *85.4* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *1* |
| *Ba Carrier* | *85.4* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *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 | 0.0984 | U | 0.357 | 0.357 | 1.00 | 0.643 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.0984 | U | 0.357 | 0.357 | 1.00 | 0.643 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *85.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *85.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.137 | U | 0.364 | 0.364 | 5.00 | 0.643 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.137 | U | 0.364 | 0.364 | 5.00 | 0.643 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_46

**Date Collected: 08/23/23 08:55**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-18

**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 | 0.0922 | U | 0.0796 | 0.0800 | 1.00 | 0.118 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.0922 | U | 0.0796 | 0.0800 | 1.00 | 0.118 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *1* |
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:35* | *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 | 0.462 | U | 0.366 | 0.368 | 1.00 | 0.563 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.462 | U | 0.366 | 0.368 | 1.00 | 0.563 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Ba Carrier* | *90.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *80.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *1* |
| *Y Carrier* | *80.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:23* | *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 | 0.554 | U | 0.375 | 0.377 | 5.00 | 0.563 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.554 | U | 0.375 | 0.377 | 5.00 | 0.563 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_47
**Date Collected: 08/23/23 15:30**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-19
**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 | 0.125 | U | 0.0906 | 0.0913 | 1.00 | 0.129 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.125 | U | 0.0906 | 0.0913 | 1.00 | 0.129 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | 0.0500 | U | 0.314 | 0.314 | 1.00 | 0.578 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.0500 | U | 0.314 | 0.314 | 1.00 | 0.578 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.175 | U | 0.327 | 0.327 | 5.00 | 0.578 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.175 | U | 0.327 | 0.327 | 5.00 | 0.578 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_54
**Date Collected: 08/23/23 13:50**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-20
**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 | 0.161 | | 0.112 | 0.113 | 1.00 | 0.160 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.161 | | 0.112 | 0.113 | 1.00 | 0.160 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *91.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | 0.0451 | U | 0.356 | 0.356 | 1.00 | 0.649 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.0451 | U | 0.356 | 0.356 | 1.00 | 0.649 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *91.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.206 | U | 0.373 | 0.374 | 5.00 | 0.649 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.206 | U | 0.373 | 0.374 | 5.00 | 0.649 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_52

**Date Collected: 08/24/23 09:40**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-25

**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 | 0.143 | | 0.0996 | 0.100 | 1.00 | 0.143 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.143 | | 0.0996 | 0.100 | 1.00 | 0.143 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *89.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | 0.336 | U | 0.377 | 0.379 | 1.00 | 0.616 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.336 | U | 0.377 | 0.379 | 1.00 | 0.616 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *89.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *74.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *74.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.479 | U | 0.390 | 0.392 | 5.00 | 0.616 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.479 | U | 0.390 | 0.392 | 5.00 | 0.616 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_27
**Date Collected: 08/24/23 09:00**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-26
**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 | 0.131 | U | 0.0948 | 0.0956 | 1.00 | 0.137 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.131 | U | 0.0948 | 0.0956 | 1.00 | 0.137 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.131 | U | 0.0948 | 0.0956 | 1.00 | 0.137 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *95.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *95.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *95.3* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | -0.0486 | U | 0.306 | 0.306 | 1.00 | 0.589 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.0486 | U | 0.306 | 0.306 | 1.00 | 0.589 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.0486 | U | 0.306 | 0.306 | 1.00 | 0.589 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *95.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *95.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *95.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *79.3* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.131 | U | 0.320 | 0.321 | 5.00 | 0.589 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.131 | U | 0.320 | 0.321 | 5.00 | 0.589 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.131 | U | 0.320 | 0.321 | 5.00 | 0.589 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_35

**Date Collected: 08/24/23 10:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-27

**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 | 0.0626 | U | 0.0710 | 0.0712 | 1.00 | 0.114 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.0626 | U | 0.0710 | 0.0712 | 1.00 | 0.114 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.0626 | U | 0.0710 | 0.0712 | 1.00 | 0.114 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | 0.235 | U | 0.369 | 0.370 | 1.00 | 0.626 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.235 | U | 0.369 | 0.370 | 1.00 | 0.626 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.235 | U | 0.369 | 0.370 | 1.00 | 0.626 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.297 | U | 0.376 | 0.377 | 5.00 | 0.626 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.297 | U | 0.376 | 0.377 | 5.00 | 0.626 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.297 | U | 0.376 | 0.377 | 5.00 | 0.626 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_07
**Date Collected: 08/24/23 14:00**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-28
**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** | **0.311** | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.311** | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.311** | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.311** | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.311** | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *88.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *77.4* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_08
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-30
**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** | **0.241** | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.241** | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.241** | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.241** | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| **Radium-226** | **0.241** | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:36* | *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 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:24* | *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 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_08&D

**Date Collected: 08/24/23 12:25**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-32

**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 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:49* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:49* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:49* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:49* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:49* | *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 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *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 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_08_FD

**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-34

**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** | **0.434** | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| **Radium-226** | **0.434** | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| **Radium-226** | **0.434** | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| **Radium-226** | **0.434** | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| **Radium-226** | **0.434** | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *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 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Ba Carrier* | *91.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *85.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *85.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *85.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *85.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *85.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *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** | **0.904** | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.904** | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.904** | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.904** | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.904** | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_XPW01_pore

**Date Collected: 08/24/23 12:15**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-36

**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 | 0.104 | U | 0.299 | 0.299 | 1.00 | 0.558 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *30.3* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *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 | 1.40 | U G | 1.38 | 1.39 | 1.00 | 2.22 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *30.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *85.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *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 | 1.51 | U | 1.41 | 1.42 | 5.00 | 2.22 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_XPW01_pore_EB

**Date Collected: 08/24/23 12:15**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-37

**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 | 0.00189 | U | 0.0740 | 0.0740 | 1.00 | 0.149 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *96.3* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *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 | -0.00858 | U | 0.262 | 0.262 | 1.00 | 0.498 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *96.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *1* |
| *Y Carrier* | *87.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:11* | *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 | 0.00189 | U | 0.272 | 0.272 | 5.00 | 0.498 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_XPW02_pore

**Date Collected: 08/24/23 13:45**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-38

**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 | 0.131 | U | 0.144 | 0.144 | 1.00 | 0.232 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *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 | 0.293 | U | 0.399 | 0.400 | 1.00 | 0.670 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *83.7* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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 | 0.424 | U | 0.424 | 0.425 | 5.00 | 0.670 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_XPW02_pore_EB

**Date Collected: 08/24/23 13:45**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-39

**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** | **0.188** | | 0.119 | 0.120 | 1.00 | 0.161 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 18:50* | *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 | -0.257 | U | 0.283 | 0.284 | 1.00 | 0.600 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *83.4* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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 | 0.188 | U | 0.307 | 0.308 | 5.00 | 0.600 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_XPW03_pore

**Date Collected: 08/24/23 15:30**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-40

**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 | 0.0406 | U | 0.0691 | 0.0692 | 1.00 | 0.119 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.5* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *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 | 0.376 | U | 0.399 | 0.401 | 1.00 | 0.650 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *81.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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 | 0.417 | U | 0.405 | 0.407 | 5.00 | 0.650 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_XPW03_pore_EB

**Date Collected: 08/24/23 15:30**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-41

**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 | 0.0195 | U | 0.0635 | 0.0636 | 1.00 | 0.114 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.5* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *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 | 0.187 | U | 0.374 | 0.375 | 1.00 | 0.645 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *81.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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 | 0.207 | U | 0.379 | 0.380 | 5.00 | 0.645 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_257_FB

**Date Collected: 08/25/23 12:00**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-42

**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 | 0.0356 | U | 0.0546 | 0.0547 | 1.00 | 0.0932 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *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 | 0.202 | U | 0.296 | 0.297 | 1.00 | 0.501 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *83.4* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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 | 0.238 | U | 0.301 | 0.302 | 5.00 | 0.501 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_34

**Date Collected: 08/25/23 11:25**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-44

**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** | **0.324** | | 0.0935 | 0.0980 | 1.00 | 0.0946 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| **Radium-226** | **0.324** | | 0.0935 | 0.0980 | 1.00 | 0.0946 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| **Radium-226** | **0.324** | | 0.0935 | 0.0980 | 1.00 | 0.0946 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *1* |
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *1* |
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *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 | 0.499 | U | 0.371 | 0.374 | 1.00 | 0.569 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.499 | U | 0.371 | 0.374 | 1.00 | 0.569 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.499 | U | 0.371 | 0.374 | 1.00 | 0.569 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Ba Carrier* | *99.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *82.6* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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** | **0.823** | | 0.383 | 0.387 | 5.00 | 0.569 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.823** | | 0.383 | 0.387 | 5.00 | 0.569 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.823** | | 0.383 | 0.387 | 5.00 | 0.569 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_49

**Date Collected: 08/25/23 10:05**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-45

**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 | 0.235 | | 0.0893 | 0.0918 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.235 | | 0.0893 | 0.0918 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.235 | | 0.0893 | 0.0918 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *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 | 0.558 | | 0.363 | 0.366 | 1.00 | 0.535 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.558 | | 0.363 | 0.366 | 1.00 | 0.535 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.558 | | 0.363 | 0.366 | 1.00 | 0.535 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Ba Carrier* | *91.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *84.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *84.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *1* |
| *Y Carrier* | *84.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:13* | *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 | 0.793 | | 0.374 | 0.377 | 5.00 | 0.535 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.793 | | 0.374 | 0.377 | 5.00 | 0.535 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.793 | | 0.374 | 0.377 | 5.00 | 0.535 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_22

**Date Collected: 08/25/23 08:50**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-46

**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 | 0.0944 | U | 0.0710 | 0.0715 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.0944 | U | 0.0710 | 0.0715 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.0944 | U | 0.0710 | 0.0715 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *96.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *1* |
| *Ba Carrier* | *96.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *1* |
| *Ba Carrier* | *96.0* | | *30 - 110* | *08/31/23 10:58* | *09/22/23 21:06* | *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 | 0.238 | U | 0.297 | 0.297 | 1.00 | 0.492 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.238 | U | 0.297 | 0.297 | 1.00 | 0.492 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.238 | U | 0.297 | 0.297 | 1.00 | 0.492 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *96.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *96.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *96.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *86.7* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *86.7* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *86.7* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *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 | 0.333 | U | 0.305 | 0.305 | 5.00 | 0.492 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.333 | U | 0.305 | 0.305 | 5.00 | 0.492 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.333 | U | 0.305 | 0.305 | 5.00 | 0.492 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_50

**Date Collected: 08/25/23 11:25**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-47

**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** | **0.289** | | 0.107 | 0.110 | 1.00 | 0.100 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| **Radium-226** | **0.289** | | 0.107 | 0.110 | 1.00 | 0.100 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| **Radium-226** | **0.289** | | 0.107 | 0.110 | 1.00 | 0.100 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *95.0* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *1* |
| *Ba Carrier* | *95.0* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *1* |
| *Ba Carrier* | *95.0* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *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 | 0.463 | U | 0.355 | 0.357 | 1.00 | 0.545 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.463 | U | 0.355 | 0.357 | 1.00 | 0.545 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.463 | U | 0.355 | 0.357 | 1.00 | 0.545 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *95.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *95.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *95.0* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *84.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *84.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *84.1* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *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** | **0.752** | | 0.371 | 0.374 | 5.00 | 0.545 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.752** | | 0.371 | 0.374 | 5.00 | 0.545 | pCi/L | | 09/27/23 15:51 | 1 |
| **Radium 226 and 228** | **0.752** | | 0.371 | 0.374 | 5.00 | 0.545 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: 845_803_FB
**Date Collected: 08/28/23 12:00**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-50
**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 | 0.00967 | U | 0.0532 | 0.0532 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *97.3* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *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 | -0.0520 | U | 0.256 | 0.256 | 1.00 | 0.504 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *97.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *83.7* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *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 | 0.00967 | U | 0.261 | 0.261 | 5.00 | 0.504 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_18#S

**Date Collected: 08/28/23 08:35**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-51

**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 | 0.000 | U | 0.0558 | 0.0558 | 1.00 | 0.117 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Radium-226 | 0.000 | U | 0.0558 | 0.0558 | 1.00 | 0.117 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Radium-226 | 0.000 | U | 0.0558 | 0.0558 | 1.00 | 0.117 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.3* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *1* |
| *Ba Carrier* | *93.3* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *1* |
| *Ba Carrier* | *93.3* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:25* | *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 | 0.245 | U | 0.311 | 0.312 | 1.00 | 0.517 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.245 | U | 0.311 | 0.312 | 1.00 | 0.517 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.245 | U | 0.311 | 0.312 | 1.00 | 0.517 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *93.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *93.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *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 | 0.245 | U | 0.316 | 0.317 | 5.00 | 0.517 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.245 | U | 0.316 | 0.317 | 5.00 | 0.517 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.245 | U | 0.316 | 0.317 | 5.00 | 0.517 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_03R
**Date Collected: 08/28/23 09:45**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-53
**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 | 0.0552 | U | 0.0678 | 0.0680 | 1.00 | 0.111 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Radium-226 | 0.0552 | U | 0.0678 | 0.0680 | 1.00 | 0.111 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Radium-226 | 0.0552 | U | 0.0678 | 0.0680 | 1.00 | 0.111 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.3* | | *30 - 110* | *08/31/23 11:10* | *09/25/23 09:22* | *1* |
| *Ba Carrier* | *89.3* | | *30 - 110* | *08/31/23 11:10* | *09/25/23 09:22* | *1* |
| *Ba Carrier* | *89.3* | | *30 - 110* | *08/31/23 11:10* | *09/25/23 09:22* | *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 | -0.414 | U | 0.360 | 0.362 | 1.00 | 0.821 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Radium-228 | -0.414 | U | 0.360 | 0.362 | 1.00 | 0.821 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Radium-228 | -0.414 | U | 0.360 | 0.362 | 1.00 | 0.821 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.3* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Ba Carrier* | *89.3* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Ba Carrier* | *89.3* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Y Carrier* | *84.5* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Y Carrier* | *84.5* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Y Carrier* | *84.5* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *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 | 0.0552 | U | 0.366 | 0.368 | 5.00 | 0.821 | pCi/L | | 09/26/23 15:38 | 1 |
| Radium 226 and 228 | 0.0552 | U | 0.366 | 0.368 | 5.00 | 0.821 | pCi/L | | 09/26/23 15:38 | 1 |
| Radium 226 and 228 | 0.0552 | U | 0.366 | 0.368 | 5.00 | 0.821 | pCi/L | | 09/26/23 15:38 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_45#S

**Date Collected: 08/28/23 11:15**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-56

**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** | **0.226** | | 0.117 | 0.119 | 1.00 | 0.133 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| **Radium-226** | **0.226** | | 0.117 | 0.119 | 1.00 | 0.133 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| **Radium-226** | **0.226** | | 0.117 | 0.119 | 1.00 | 0.133 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *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 | 0.409 | 0.410 | 1.00 | 0.687 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.297 | U | 0.409 | 0.410 | 1.00 | 0.687 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.297 | U | 0.409 | 0.410 | 1.00 | 0.687 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *81.9* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *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 | 0.522 | U | 0.425 | 0.427 | 5.00 | 0.687 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.522 | U | 0.425 | 0.427 | 5.00 | 0.687 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.522 | U | 0.425 | 0.427 | 5.00 | 0.687 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_16

**Date Collected: 08/28/23 08:35**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-58

**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 | 0.0461 | U | 0.0589 | 0.0591 | 1.00 | 0.0975 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0461 | U | 0.0589 | 0.0591 | 1.00 | 0.0975 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *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 | 0.460 | U | 0.343 | 0.345 | 1.00 | 0.522 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.460 | U | 0.343 | 0.345 | 1.00 | 0.522 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *83.4* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *1* |
| *Y Carrier* | *83.4* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:17* | *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 | 0.506 | U | 0.348 | 0.350 | 5.00 | 0.522 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.506 | U | 0.348 | 0.350 | 5.00 | 0.522 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_17
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-59
**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 | 0.0741 | U | 0.0682 | 0.0685 | 1.00 | 0.101 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0741 | U | 0.0682 | 0.0685 | 1.00 | 0.101 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 10:58* | *09/25/23 09:28* | *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 | 0.136 | U | 0.327 | 0.327 | 1.00 | 0.574 | pCi/L | 08/31/23 11:08 | 09/19/23 12:18 | 1 |
| Radium-228 | 0.136 | U | 0.327 | 0.327 | 1.00 | 0.574 | pCi/L | 08/31/23 11:08 | 09/19/23 12:18 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:18* | *1* |
| *Ba Carrier* | *93.5* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:18* | *1* |
| *Y Carrier* | *83.4* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:18* | *1* |
| *Y Carrier* | *83.4* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:18* | *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 | 0.210 | U | 0.334 | 0.334 | 5.00 | 0.574 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.210 | U | 0.334 | 0.334 | 5.00 | 0.574 | pCi/L | | 09/27/23 15:51 | 1 |

# Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_17-FD
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-60
**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 | 0.0774 | U | 0.0770 | 0.0773 | 1.00 | 0.121 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Radium-226 | 0.0774 | U | 0.0770 | 0.0773 | 1.00 | 0.121 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.1* | | *30 - 110* | *08/31/23 11:10* | *09/25/23 09:22* | *1* |
| *Ba Carrier* | *91.1* | | *30 - 110* | *08/31/23 11:10* | *09/25/23 09:22* | *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 | 0.809 | U G | 0.691 | 0.695 | 1.00 | 1.09 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Radium-228 | 0.809 | U G | 0.691 | 0.695 | 1.00 | 1.09 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |

| *Carrier* | *%Yield* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *91.1* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Ba Carrier* | *91.1* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Y Carrier* | *77.8* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *1* |
| *Y Carrier* | *77.8* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 15:35* | *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 | 0.886 | U | 0.695 | 0.699 | 5.00 | 1.09 | pCi/L | | 09/26/23 15:38 | 1 |
| Radium 226 and 228 | 0.886 | U | 0.695 | 0.699 | 5.00 | 1.09 | pCi/L | | 09/26/23 15:38 | 1 |

# Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## 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 |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Rad

### Prep Batch: 626172

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-1 | HEN_21R | Total/NA | Water | PrecSep-21 | |
| 500-238579-2 | HEN_22&D | Total/NA | Water | PrecSep-21 | |
| 500-238579-3 | HEN_23 | Total/NA | Water | PrecSep-21 | |
| 500-238579-4 | HEN_23_FD | Total/NA | Water | PrecSep-21 | |
| 500-238579-5 | HEN_32 | Total/NA | Water | PrecSep-21 | |
| 500-238579-6 | HEN_51 | Total/NA | Water | PrecSep-21 | |
| 500-238579-7 | HEN_25 | Total/NA | Water | PrecSep-21 | |
| 500-238579-8 | HEN_26 | Total/NA | Water | PrecSep-21 | |
| 500-238579-13 | HEN_18&D | Total/NA | Water | PrecSep-21 | |
| 500-238579-15 | HEN_12 | Total/NA | Water | PrecSep-21 | |
| 500-238579-16 | HEN_13 | Total/NA | Water | PrecSep-21 | |
| 500-238579-18 | HEN_46 | Total/NA | Water | PrecSep-21 | |
| 500-238579-19 | HEN_47 | Total/NA | Water | PrecSep-21 | |
| 500-238579-20 | HEN_54 | Total/NA | Water | PrecSep-21 | |
| 500-238579-25 | HEN_52 | Total/NA | Water | PrecSep-21 | |
| 500-238579-26 | HEN_27 | Total/NA | Water | PrecSep-21 | |
| 500-238579-27 | HEN_35 | Total/NA | Water | PrecSep-21 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | PrecSep-21 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | PrecSep-21 | |
| MB 160-626172/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-626172/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-238579-8 MS | HEN_26_MS | Total/NA | Water | PrecSep-21 | |
| 500-238579-8 MSD | HEN_26_MSD | Total/NA | Water | PrecSep-21 | |

### Prep Batch: 626177

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-1 | HEN_21R | Total/NA | Water | PrecSep_0 | |
| 500-238579-2 | HEN_22&D | Total/NA | Water | PrecSep_0 | |
| 500-238579-3 | HEN_23 | Total/NA | Water | PrecSep_0 | |
| 500-238579-4 | HEN_23_FD | Total/NA | Water | PrecSep_0 | |
| 500-238579-5 | HEN_32 | Total/NA | Water | PrecSep_0 | |
| 500-238579-6 | HEN_51 | Total/NA | Water | PrecSep_0 | |
| 500-238579-7 | HEN_25 | Total/NA | Water | PrecSep_0 | |
| 500-238579-8 | HEN_26 | Total/NA | Water | PrecSep_0 | |
| 500-238579-13 | HEN_18&D | Total/NA | Water | PrecSep_0 | |
| 500-238579-15 | HEN_12 | Total/NA | Water | PrecSep_0 | |
| 500-238579-16 | HEN_13 | Total/NA | Water | PrecSep_0 | |
| 500-238579-18 | HEN_46 | Total/NA | Water | PrecSep_0 | |
| 500-238579-19 | HEN_47 | Total/NA | Water | PrecSep_0 | |
| 500-238579-20 | HEN_54 | Total/NA | Water | PrecSep_0 | |
| 500-238579-25 | HEN_52 | Total/NA | Water | PrecSep_0 | |
| 500-238579-26 | HEN_27 | Total/NA | Water | PrecSep_0 | |
| 500-238579-27 | HEN_35 | Total/NA | Water | PrecSep_0 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | PrecSep_0 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | PrecSep_0 | |
| MB 160-626177/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-626177/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-238579-8 MS | HEN_26_MS | Total/NA | Water | PrecSep_0 | |
| 500-238579-8 MSD | HEN_26_MSD | Total/NA | Water | PrecSep_0 | |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Rad

### Prep Batch: 626178

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-32 | HEN_08&D | Total/NA | Water | PrecSep-21 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | PrecSep-21 | |
| 500-238579-36 | HEN_XPW01_pore | Total/NA | Water | PrecSep-21 | |
| 500-238579-37 | HEN_XPW01_pore_EB | Total/NA | Water | PrecSep-21 | |
| 500-238579-38 | HEN_XPW02_pore | Total/NA | Water | PrecSep-21 | |
| 500-238579-39 | HEN_XPW02_pore_EB | Total/NA | Water | PrecSep-21 | |
| 500-238579-40 | HEN_XPW03_pore | Total/NA | Water | PrecSep-21 | |
| 500-238579-41 | HEN_XPW03_pore_EB | Total/NA | Water | PrecSep-21 | |
| 500-238579-42 | HEN_257_FB | Total/NA | Water | PrecSep-21 | |
| 500-238579-44 | HEN_34 | Total/NA | Water | PrecSep-21 | |
| 500-238579-45 | HEN_49 | Total/NA | Water | PrecSep-21 | |
| 500-238579-46 | HEN_22 | Total/NA | Water | PrecSep-21 | |
| 500-238579-47 | HEN_50 | Total/NA | Water | PrecSep-21 | |
| 500-238579-50 | 845_803_FB | Total/NA | Water | PrecSep-21 | |
| 500-238579-51 | HEN_18#S | Total/NA | Water | PrecSep-21 | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | PrecSep-21 | |
| 500-238579-58 | HEN_16 | Total/NA | Water | PrecSep-21 | |
| 500-238579-59 | HEN_17 | Total/NA | Water | PrecSep-21 | |
| MB 160-626178/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-626178/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-238579-45 MS | HEN_49_MS | Total/NA | Water | PrecSep-21 | |
| 500-238579-45 MSD | HEN_49_MSD | Total/NA | Water | PrecSep-21 | |

### Prep Batch: 626179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-32 | HEN_08&D | Total/NA | Water | PrecSep_0 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | PrecSep_0 | |
| 500-238579-36 | HEN_XPW01_pore | Total/NA | Water | PrecSep_0 | |
| 500-238579-37 | HEN_XPW01_pore_EB | Total/NA | Water | PrecSep_0 | |
| 500-238579-38 | HEN_XPW02_pore | Total/NA | Water | PrecSep_0 | |
| 500-238579-39 | HEN_XPW02_pore_EB | Total/NA | Water | PrecSep_0 | |
| 500-238579-40 | HEN_XPW03_pore | Total/NA | Water | PrecSep_0 | |
| 500-238579-41 | HEN_XPW03_pore_EB | Total/NA | Water | PrecSep_0 | |
| 500-238579-42 | HEN_257_FB | Total/NA | Water | PrecSep_0 | |
| 500-238579-44 | HEN_34 | Total/NA | Water | PrecSep_0 | |
| 500-238579-45 | HEN_49 | Total/NA | Water | PrecSep_0 | |
| 500-238579-46 | HEN_22 | Total/NA | Water | PrecSep_0 | |
| 500-238579-47 | HEN_50 | Total/NA | Water | PrecSep_0 | |
| 500-238579-50 | 845_803_FB | Total/NA | Water | PrecSep_0 | |
| 500-238579-51 | HEN_18#S | Total/NA | Water | PrecSep_0 | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | PrecSep_0 | |
| 500-238579-58 | HEN_16 | Total/NA | Water | PrecSep_0 | |
| 500-238579-59 | HEN_17 | Total/NA | Water | PrecSep_0 | |
| MB 160-626179/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-626179/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-238579-45 MS | HEN_49_MS | Total/NA | Water | PrecSep_0 | |
| 500-238579-45 MSD | HEN_49_MSD | Total/NA | Water | PrecSep_0 | |

### Prep Batch: 626180

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-53 | HEN_03R | Total/NA | Water | PrecSep-21 | |

# QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Rad (Continued)

### Prep Batch: 626180 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-60 | HEN_17-FD | Total/NA | Water | PrecSep-21 | |
| MB 160-626180/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-626180/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | PrecSep-21 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | PrecSep-21 | |

### Prep Batch: 626182

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 500-238579-53 | HEN_03R | Total/NA | Water | PrecSep_0 | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | PrecSep_0 | |
| MB 160-626182/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-626182/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | PrecSep_0 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | PrecSep_0 | |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 903.0 - Radium-226 (GFPC)

**Lab Sample ID: MB 160-626172/1-A**
**Matrix: Water**
**Analysis Batch: 629490**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626172**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.03516 | U | 0.0558 | 0.0559 | 1.00 | 0.0976 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |

| *Carrier* | *MB %Yield* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.8* | | *30 - 110* | *08/31/23 10:39* | *09/25/23 09:27* | *1* |

**Lab Sample ID: LCS 160-626172/2-A**
**Matrix: Water**
**Analysis Batch: 629490**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 626172**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 10.33 | | 1.10 | 1.00 | 0.102 | pCi/L | 91 | 75 - 125 | | |

| *Carrier* | *LCS %Yield* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* |

**Lab Sample ID: 500-238579-8 MS**
**Matrix: Water**
**Analysis Batch: 629491**

**Client Sample ID: HEN_26_MS**
**Prep Type: Total/NA**
**Prep Batch: 626172**

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.306 | | 11.3 | 10.96 | | 1.17 | 1.00 | 0.112 | pCi/L | 95 | 60 - 140 | | |

| *Carrier* | *MS %Yield* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *84.4* | | *30 - 110* |

**Lab Sample ID: 500-238579-8 MSD**
**Matrix: Water**
**Analysis Batch: 629491**

**Client Sample ID: HEN_26_MSD**
**Prep Type: Total/NA**
**Prep Batch: 626172**

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.306 | | 11.4 | 10.84 | | 1.16 | 1.00 | 0.121 | pCi/L | 92 | 60 - 140 | 0.05 | 1 |

| *Carrier* | *MSD %Yield* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *88.3* | | *30 - 110* |

**Lab Sample ID: MB 160-626178/1-A**
**Matrix: Water**
**Analysis Batch: 629278**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626178**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.01063 | U | 0.0857 | 0.0857 | 1.00 | 0.166 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: MB 160-626178/1-A**
**Matrix: Water**
**Analysis Batch: 629278**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626178**

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Ba Carrier | 99.3 | | 30 - 110 | 08/31/23 10:58 | 09/22/23 18:49 | 1 |

**Lab Sample ID: LCS 160-626178/2-A**
**Matrix: Water**
**Analysis Batch: 629278**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 626178**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 10.95 | | 1.19 | 1.00 | 0.166 | pCi/L | 97 | 75 - 125 | | |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 100 | | 30 - 110 |

**Lab Sample ID: 500-238579-45 MS**
**Matrix: Water**
**Analysis Batch: 629278**

**Client Sample ID: HEN_49_MS**
**Prep Type: Total/NA**
**Prep Batch: 626178**

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.235 | | 11.4 | 11.42 | | 1.13 | 1.00 | 0.107 | pCi/L | 99 | 60 - 140 | | |

| Carrier | MS %Yield | MS Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 90.6 | | 30 - 110 |

**Lab Sample ID: 500-238579-45 MSD**
**Matrix: Water**
**Analysis Batch: 629278**

**Client Sample ID: HEN_49_MSD**
**Prep Type: Total/NA**
**Prep Batch: 626178**

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.235 | | 11.4 | 10.73 | | 1.08 | 1.00 | 0.133 | pCi/L | 92 | 60 - 140 | 0.31 | 1 |

| Carrier | MSD %Yield | MSD Qualifier | Limits |
|---|---|---|---|
| Ba Carrier | 87.1 | | 30 - 110 |

**Lab Sample ID: MB 160-626180/1-A**
**Matrix: Water**
**Analysis Batch: 629275**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626180**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | -0.02184 | U | 0.0535 | 0.0535 | 1.00 | 0.128 | pCi/L | 08/31/23 11:10 | 09/22/23 14:34 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Ba Carrier | 94.8 | | 30 - 110 | 08/31/23 11:10 | 09/22/23 14:34 | 1 |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Lab Sample ID: LCS 160-626180/2-A**
**Matrix: Water**
**Analysis Batch: 629275**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 626180**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | | | 11.3 | 10.99 | | 1.18 | 1.00 | 0.129 | pCi/L | 97 | 75 - 125 | | |

| *Carrier* | *LCS %Yield* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *94.0* | | *30 - 110* |

**Lab Sample ID: 500-238579-53 MS**
**Matrix: Water**
**Analysis Batch: 629490**

**Client Sample ID: HEN_03R_MS**
**Prep Type: Total/NA**
**Prep Batch: 626180**

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.0552 | U | 11.4 | 10.03 | | 1.07 | 1.00 | 0.110 | pCi/L | 88 | 60 - 140 | | |

| *Carrier* | *MS %Yield* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *90.3* | | *30 - 110* |

**Lab Sample ID: 500-238579-53 MSD**
**Matrix: Water**
**Analysis Batch: 629490**

**Client Sample ID: HEN_03R_MSD**
**Prep Type: Total/NA**
**Prep Batch: 626180**

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-226 | 0.0552 | U | 11.4 | 10.90 | | 1.15 | 1.00 | 0.147 | pCi/L | 95 | 60 - 140 | 0.39 | 1 |

| *Carrier* | *MSD %Yield* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *94.8* | | *30 - 110* |

## Method: 904.0 - Radium-228 (GFPC)

**Lab Sample ID: MB 160-626177/1-A**
**Matrix: Water**
**Analysis Batch: 628708**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626177**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | 0.5950 | U | 0.421 | 0.425 | 1.00 | 0.643 | pCi/L | 08/31/23 10:56 | 09/19/23 12:22 | 1 |

| *Carrier* | *MB %Yield* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *89.8* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:22* | *1* |
| *Y Carrier* | *85.2* | | *30 - 110* | *08/31/23 10:56* | *09/19/23 12:22* | *1* |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-626177/2-A**
**Matrix: Water**
**Analysis Batch: 628708**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 626177**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 7.86 | 8.916 | | 1.27 | 1.00 | 0.622 | pCi/L | 113 | 75 - 125 | | |

| *Carrier* | *LCS %Yield* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *93.1* | | *30 - 110* |
| *Y Carrier* | *84.1* | | *30 - 110* |

**Lab Sample ID: 500-238579-8 MS**
**Matrix: Water**
**Analysis Batch: 628708**

**Client Sample ID: HEN_26_MS**
**Prep Type: Total/NA**
**Prep Batch: 626177**

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | -0.320 | U | 7.81 | 9.721 | | 1.43 | 1.00 | 0.665 | pCi/L | 124 | 60 - 140 | | |

| *Carrier* | *MS %Yield* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *84.4* | | *30 - 110* |
| *Y Carrier* | *77.0* | | *30 - 110* |

**Lab Sample ID: 500-238579-8 MSD**
**Matrix: Water**
**Analysis Batch: 628708**

**Client Sample ID: HEN_26_MSD**
**Prep Type: Total/NA**
**Prep Batch: 626177**

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | -0.320 | U | 7.91 | 9.754 | | 1.42 | 1.00 | 0.783 | pCi/L | 123 | 60 - 140 | 0.01 | 1 |

| *Carrier* | *MSD %Yield* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *88.3* | | *30 - 110* |
| *Y Carrier* | *81.9* | | *30 - 110* |

**Lab Sample ID: MB 160-626179/1-A**
**Matrix: Water**
**Analysis Batch: 628698**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626179**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | -0.09226 | U | 0.278 | 0.278 | 1.00 | 0.547 | pCi/L | 08/31/23 11:08 | 09/19/23 12:10 | 1 |

| *Carrier* | *MB %Yield* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *99.3* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:10* | *1* |
| *Y Carrier* | *82.2* | | *30 - 110* | *08/31/23 11:08* | *09/19/23 12:10* | *1* |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-626179/2-A**
**Matrix: Water**
**Analysis Batch: 628698**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 626179**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 7.86 | 8.022 | | 1.13 | 1.00 | 0.476 | pCi/L | 102 | 75 - 125 | | |

| *Carrier* | *LCS %Yield* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *100* | | *30 - 110* |
| *Y Carrier* | *87.5* | | *30 - 110* |

**Lab Sample ID: 500-238579-45 MS**
**Matrix: Water**
**Analysis Batch: 628698**

**Client Sample ID: HEN_49_MS**
**Prep Type: Total/NA**
**Prep Batch: 626179**

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | 0.558 | | 7.88 | 8.928 | | 1.30 | 1.00 | 0.617 | pCi/L | 106 | 60 - 140 | | |

| *Carrier* | *MS %Yield* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *90.6* | | *30 - 110* |
| *Y Carrier* | *79.6* | | *30 - 110* |

**Lab Sample ID: 500-238579-45 MSD**
**Matrix: Water**
**Analysis Batch: 628698**

**Client Sample ID: HEN_49_MSD**
**Prep Type: Total/NA**
**Prep Batch: 626179**

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | 0.558 | | 7.91 | 8.905 | | 1.29 | 1.00 | 0.616 | pCi/L | 105 | 60 - 140 | 0.01 | 1 |

| *Carrier* | *MSD %Yield* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *87.1* | | *30 - 110* |
| *Y Carrier* | *84.1* | | *30 - 110* |

**Lab Sample ID: MB 160-626182/1-A**
**Matrix: Water**
**Analysis Batch: 628632**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 626182**

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | 0.08319 | U | 0.303 | 0.304 | 1.00 | 0.545 | pCi/L | 08/31/23 11:15 | 09/18/23 12:29 | 1 |

| *Carrier* | *MB %Yield* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Ba Carrier* | *94.8* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 12:29* | *1* |
| *Y Carrier* | *90.8* | | *30 - 110* | *08/31/23 11:15* | *09/18/23 12:29* | *1* |

# QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Lab Sample ID: LCS 160-626182/2-A**
**Matrix: Water**
**Analysis Batch: 628632**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 626182**

| Analyte | | | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | | | 7.87 | 8.699 | | 1.26 | 1.00 | 0.571 | pCi/L | 111 | 75 - 125 | | |

| *Carrier* | *LCS %Yield* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *94.0* | | *30 - 110* |
| *Y Carrier* | *81.5* | | *30 - 110* |

**Lab Sample ID: 500-238579-53 MS**
**Matrix: Water**
**Analysis Batch: 628632**

**Client Sample ID: HEN_03R_MS**
**Prep Type: Total/NA**
**Prep Batch: 626182**

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | -0.414 | U | 7.89 | 8.647 | | 1.46 | 1.00 | 0.860 | pCi/L | 110 | 60 - 140 | | |

| *Carrier* | *MS %Yield* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *90.3* | | *30 - 110* |
| *Y Carrier* | *80.0* | | *30 - 110* |

**Lab Sample ID: 500-238579-53 MSD**
**Matrix: Water**
**Analysis Batch: 628632**

**Client Sample ID: HEN_03R_MSD**
**Prep Type: Total/NA**
**Prep Batch: 626182**

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Radium-228 | -0.414 | U | 7.91 | 8.231 | | 1.33 | 1.00 | 0.739 | pCi/L | 104 | 60 - 140 | 0.15 | 1 |

| *Carrier* | *MSD %Yield* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Ba Carrier* | *94.8* | | *30 - 110* |
| *Y Carrier* | *89.3* | | *30 - 110* |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_21R
**Date Collected: 08/22/23 13:45**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-1
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:27 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_22&D
**Date Collected: 08/22/23 09:10**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-2
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_23
**Date Collected: 08/22/23 11:20**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-3
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_23_FD
**Date Collected: 08/22/23 11:20**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-4
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_32
**Date Collected: 08/22/23 11:15**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-5
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_51
**Date Collected: 08/22/23 15:56**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-6
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_25
**Date Collected: 08/22/23 14:30**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-7
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_26
**Date Collected: 08/22/23 15:35**
**Date Received: 08/23/23 10:00**

## Lab Sample ID: 500-238579-8
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_18&D
**Date Collected: 08/23/23 14:05**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-13
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_12
**Date Collected: 08/23/23 10:10**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-15
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_13
**Date Collected: 08/23/23 11:25**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-16
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_46
**Date Collected: 08/23/23 08:55**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-18
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_47
**Date Collected: 08/23/23 15:30**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-19
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_54
**Date Collected: 08/23/23 13:50**
**Date Received: 08/24/23 09:38**

## Lab Sample ID: 500-238579-20
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_52
**Date Collected: 08/24/23 09:40**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-25
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_27
**Date Collected: 08/24/23 09:00**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-26
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_35
**Date Collected: 08/24/23 10:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-27
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_07
**Date Collected: 08/24/23 14:00**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-28
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_08
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-30
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_08&D
**Date Collected: 08/24/23 12:25**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-32
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:49 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_08_FD
**Date Collected: 08/24/23 15:10**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-34
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_XPW01_pore
**Date Collected: 08/24/23 12:15**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-36
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_XPW01_pore_EB
**Date Collected: 08/24/23 12:15**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-37
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_XPW02_pore
**Date Collected: 08/24/23 13:45**
**Date Received: 08/25/23 09:32**

## Lab Sample ID: 500-238579-38
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle



## Client Sample ID: HEN_XPW02_pore_EB
**Lab Sample ID: 500-238579-39**
**Date Collected: 08/24/23 13:45**
**Matrix: Water**
**Date Received: 08/25/23 09:32**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_XPW03_pore
**Lab Sample ID: 500-238579-40**
**Date Collected: 08/24/23 15:30**
**Matrix: Water**
**Date Received: 08/25/23 09:32**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_XPW03_pore_EB
**Lab Sample ID: 500-238579-41**
**Date Collected: 08/24/23 15:30**
**Matrix: Water**
**Date Received: 08/25/23 09:32**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_257_FB
**Lab Sample ID: 500-238579-42**
**Date Collected: 08/25/23 12:00**
**Matrix: Water**
**Date Received: 08/25/23 15:00**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_34
**Date Collected: 08/25/23 11:25**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-44
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_49
**Date Collected: 08/25/23 10:05**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-45
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_22
**Date Collected: 08/25/23 08:50**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-46
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_50
**Date Collected: 08/25/23 11:25**
**Date Received: 08/25/23 15:00**

## Lab Sample ID: 500-238579-47
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:25 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: 845_803_FB
**Date Collected: 08/28/23 12:00**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-50
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:25 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_18#S
**Date Collected: 08/28/23 08:35**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-51
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:25 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_03R
**Date Collected: 08/28/23 09:45**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-53
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626180 | KAC | EET SL | 08/31/23 11:10 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:22 |
| Total/NA | Prep | PrecSep_0 | | | 626182 | KAC | EET SL | 08/31/23 11:15 |
| Total/NA | Analysis | 904.0 | | 1 | 628632 | SCB | EET SL | 09/18/23 15:35 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629684 | SCB | EET SL | 09/26/23 15:38 |

## Client Sample ID: HEN_45#S
**Date Collected: 08/28/23 11:15**
**Date Received: 08/28/23 15:00**

## Lab Sample ID: 500-238579-56
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

# Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Client Sample ID: HEN_16
**Date Collected: 08/28/23 08:35**
**Date Received: 08/28/23 15:00**

**Lab Sample ID: 500-238579-58**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_17
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

**Lab Sample ID: 500-238579-59**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:18 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

## Client Sample ID: HEN_17-FD
**Date Collected: 08/28/23 09:40**
**Date Received: 08/28/23 15:00**

**Lab Sample ID: 500-238579-60**
**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | PrecSep-21 | | | 626180 | KAC | EET SL | 08/31/23 11:10 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:22 |
| Total/NA | Prep | PrecSep_0 | | | 626182 | KAC | EET SL | 08/31/23 11:15 |
| Total/NA | Analysis | 904.0 | | 1 | 628632 | SCB | EET SL | 09/18/23 15:35 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629684 | SCB | EET SL | 09/26/23 15:38 |

**Laboratory References:**
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| Illinois | NELAP | 200023 | 11-30-23 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| 903.0 | PrecSep-21 | Water | Radium-226 |
| 904.0 | PrecSep_0 | Water | Radium-228 |
| Ra226_Ra228 Pos | | Water | Radium 226 and 228 |

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-21 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/25/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 Z | 904.0/PrecSep_0 Z | Ra226_228GFPC_P/ Z | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | | | | | |
| HEN_12 (500-238579-15) | 8/23/23 | 10:10 Central | | Water | | | X | X | X | 2 | |
| HEN_13 (500-238579-16) | 8/23/23 | 11:25 Central | | Water | | | X | X | X | 2 | |
| HEN_46 (500-238579-18) | 8/23/23 | 08:55 Central | | Water | | | X | X | X | 2 | |
| HEN_47 (500-238579-19) | 8/23/23 | 15:30 Central | | Water | | | X | X | X | 2 | |
| HEN_54 (500-238579-20) | 8/23/23 | 13:50 Central | | Water | | | X | X | X | 2 | |
| HEN_52 (500-238579-25) | 8/24/23 | 09:40 Central | | Water | | | X | X | X | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | | X | X | X | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | | X | X | X | 2 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| *Possible Hazard Identification* | *Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)* |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EET | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Briana Sharkey-Hamden | Date/Time: 8/30/23 0900 | Company ETAS |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-303
APPENDIX A.

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-21 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/25/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 Z | 904.0/PrecSep_0 Z | Ra226_228GFPC_P/ Z | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | 2 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EEIA | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Shanbey - Gonzalez | Date/Time: 8/30/23 0900 | Company ETAS |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803
APPENDIX A.

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-6 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AF | 904.0/PrecSep_0 AF | Ra226_228GFPC_P/ AF | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_21R (500-238579-1) | 8/22/23 | 13:45 Central | | Water | | | X | X | X | 2 | |
| HEN_23 (500-238579-3) | 8/22/23 | 11:20 Central | | Water | | | X | X | X | 2 | |
| HEN_23_FD (500-238579-4) | 8/22/23 | 11:20 Central | | Water | | | X | X | X | 2 | |
| HEN_32 (500-238579-5) | 8/22/23 | 11:15 Central | | Water | | | X | X | X | 2 | |
| HEN_51 (500-238579-6) | 8/22/23 | 15:56 Central | | Water | | | X | X | X | 2 | |
| HEN_27 (500-238579-26) | 8/24/23 | 09:00 Central | | Water | | | X | X | X | 2 | |
| HEN_35 (500-238579-27) | 8/24/23 | 10:10 Central | | Water | | | X | X | X | 2 | |
| HEN_34 (500-238579-44) | 8/25/23 | 11:25 Central | | Water | | | X | X | X | 2 | |
| HEN_49 (500-238579-45) | 8/25/23 | 10:05 Central | | Water | | | X | X | X | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EEA | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Briana Sharkey-Gonzalez | Date/Time: 8/30/23 0900 | Company ERASTL |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-6 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AF | 904.0/PrecSep_0 AF | Ra226_228GFPC_P/ AF | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_49_MS (500-238579-45MS) | 8/25/23 | 10:05 Central | MS | Water | | | X | X | X | 3 | |
| HEN_49_MSD (500-238579-45MSD) | 8/25/23 | 10:05 Central | MSD | Water | | | X | X | X | 3 | |
| HEN_22 (500-238579-46) | 8/25/23 | 08:50 Central | | Water | | | X | X | X | 2 | |
| HEN_50 (500-238579-47) | 8/25/23 | 11:25 Central | | Water | | | X | X | X | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hernandez | 8/29/23 1500 | EEIA | FED EX | | |
| 2 | FED EX | | | Brianna Sharkey-Hanzlick | 8/30/23 0900 | ETASL |
| 3 | | | | | | |

| Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-4 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AD | 904.0/PrecSep_0 AD | Ra226_228GFPC_P/ AD | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | | | | | |
| HEN_21R (500-238579-1) | 8/22/23 | 13:45 Central | | Water | | | X | X | X | 2 | |
| HEN_22&D (500-238579-2) | 8/22/23 | 09:10 Central | | Water | | | X | X | X | 2 | |
| HEN_23 (500-238579-3) | 8/22/23 | 11:20 Central | | Water | | | X | X | X | 2 | |
| HEN_23_FD (500-238579-4) | 8/22/23 | 11:20 Central | | Water | | | X | X | X | 2 | |
| HEN_32 (500-238579-5) | 8/22/23 | 11:15 Central | | Water | | | X | X | X | 2 | |
| HEN_51 (500-238579-6) | 8/22/23 | 15:56 Central | | Water | | | X | X | X | 2 | |
| HEN_27 (500-238579-26) | 8/24/23 | 09:00 Central | | Water | | | X | X | X | 2 | |
| HEN_35 (500-238579-27) | 8/24/23 | 10:10 Central | | Water | | | X | X | X | 2 | |
| HEN_34 (500-238579-44) | 8/25/23 | 11:25 Central | | Water | | | X | X | X | 2 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| *Possible Hazard Identification* | *Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)* |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hernandez | 8/29/23 1700 | FEDEX | FED EX | | |
| 2 | FED EX | | | Briana Sharkey-Gonzalez | 8/30/23 0900 | EASTL |
| 3 | | | | | | |

| Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-4 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AD | 904.0/PrecSep_0 AD | Ra226_228GFPC_P/ AD | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_49 (500-238579-45) | 8/25/23 | 10:05 Central | | Water | | | X | X | X | 2 | |
| HEN_49_MS (500-238579-45MS) | 8/25/23 | 10:05 Central | MS | Water | | | X | X | X | 3 | |
| HEN_49_MSD (500-238579-45MSD) | 8/25/23 | 10:05 Central | MSD | Water | | | X | X | X | 3 | |
| HEN_22 (500-238579-46) | 8/25/23 | 08:50 Central | | Water | | | X | X | X | 2 | |
| HEN_50 (500-238579-47) | 8/25/23 | 11:25 Central | | Water | | | X | X | X | 2 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1600 | ~~EET~~ | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Brenda Sharkey-Gonzalez | Date/Time: 8/30/23 0500 | Company ETAS |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT EAST ASH POND
HEN-257803
APPENDIX A

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-23 |
| Address: 13715 Rider Trail North, | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AC | 904.0/PrecSep_0 AC | Ra226_228GFPC_P/ AC | 903.0/PrecSep_21 AC-23 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| HEN_12 (500-238579-15) | 8/23/23 | 10:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_13 (500-238579-16) | 8/23/23 | 11:25 Central | | Water | | | X | X | X | | 2 | |
| HEN_46 (500-238579-18) | 8/23/23 | 08:55 Central | | Water | | | X | X | X | | 2 | |
| HEN_47 (500-238579-19) | 8/23/23 | 15:30 Central | | Water | | | X | X | X | | 2 | |
| HEN_54 (500-238579-20) | 8/23/23 | 13:50 Central | | Water | | | X | X | X | | 2 | |
| HEN_52 (500-238579-25) | 8/24/23 | 09:40 Central | | Water | | | X | X | X | | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | | X | X | X | | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | | X | X | X | | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-303
APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| ***Possible Hazard Identification*** *Unconfirmed* | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months* |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EET AP | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: | Date/Time: 8/30/23 900 | Company ET AP |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-23 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AC | 904.0/PrecSep_0 AC | Ra226_228GFPC_P/ AC | 903.0/PrecSep_21 AC-23 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| 845_803_FB (500-238579-50) | 8/28/23 | 12:00 Central | | Water | | | | X | X | X | 2 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EEIA | FED EX | | |
| FED EX | | | Briana Sharkey-Gonzalez | 8/30/23 0900 | ETJTC |
| | | | | | |

| Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-2 |
| Address: 13715 Rider Trail North, | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AA | 904.0/PrecSep_0 AA | Ra226_228GFPC_P/ AA | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_21R (500-238579-1) | 8/22/23 | 13:45 Central | | Water | | | X | X | X | 2 | |
| HEN_22&D (500-238579-2) | 8/22/23 | 09:10 Central | | Water | | | X | X | X | 2 | |
| HEN_23 (500-238579-3) | 8/22/23 | 11:20 Central | | Water | | | X | X | X | 2 | |
| HEN_23_FD (500-238579-4) | 8/22/23 | 11:20 Central | | Water | | | X | X | X | 2 | |
| HEN_32 (500-238579-5) | 8/22/23 | 11:15 Central | | Water | | | X | X | X | 2 | |
| HEN_51 (500-238579-6) | 8/22/23 | 15:56 Central | | Water | | | X | X | X | 2 | |
| HEN_27 (500-238579-26) | 8/24/23 | 09:00 Central | | Water | | | X | X | X | 2 | |
| HEN_35 (500-238579-27) | 8/24/23 | 10:10 Central | | Water | | | X | X | X | 2 | |
| HEN_34 (500-238579-44) | 8/25/23 | 11:25 Central | | Water | | | X | X | X | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| ***Possible Hazard Identification*** *Unconfirmed* | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hernandez FED EX | 8/29/23 1500 | EEIA | Briana Sharkey - Hanglers FED EX | 8/30/23 0900 | EEASTL |
| 2 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|



10/11/2023

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-2 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | PO #: | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | WO #: | | | |
| Email: | Project #: 50021987 | | | |
| Project Name: HEN-23Q3 | SSOW#: | | | |
| Site: | | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AA | 904.0/PrecSep_0 AA | Ra226_228GFPC_P/ AA | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_49 (500-238579-45) | 8/25/23 | 10:05 Central | | Water | | | X | X | X | 2 | |
| HEN_49_MS (500-238579-45MS) | 8/25/23 | 10:05 Central | MS | Water | | | X | X | X | 3 | |
| HEN_49_MSD (500-238579-45MSD) | 8/25/23 | 10:05 Central | MSD | Water | | | X | X | X | 3 | |
| HEN_22 (500-238579-46) | 8/25/23 | 08:50 Central | | Water | | | X | X | X | 2 | |
| HEN_50 (500-238579-47) | 8/25/23 | 11:25 Central | | Water | | | X | X | X | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803
APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| | | | | | | |
|---|---|---|---|---|---|---|
| Empty Kit Relinquished by: | | Date: | | Time: | Method of Shipment: | |
| Relinquished by: Stephanie Hernandez | Date/Time: 8/29/23 1500 | Company EEIA | Received by: FED EX | Date/Time: | Company | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Briana Sharkey - Hazardous | Date/Time: 8/30/23 0900 | Company EMVI | |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company | |
| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | |

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-18 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AE | 904.0/PrecSep_0 AE | Ra226_228GFPC_P/ AE | 903.0/PrecSep_21 AE-18 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| HEN_18&D (500-238579-13) | 8/23/23 | 14:05 Central | | Water | | | X | X | X | | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | | X | X | X | | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | | X | X | X | | 2 | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_18#S (500-238579-51) | 8/28/23 | 08:35 Central | | Water | | | | X | X | X | 2 | |
| HEN_03R (500-238579-53) | 8/28/23 | 09:45 Central | | Water | | | | X | X | X | 2 | |
| HEN_03R (500-238579-53MS) | 8/28/23 | 09:45 Central | MS | Water | | | | X | X | X | 3 | |
| HEN_03R (500-238579-53MSD) | 8/28/23 | 09:45 Central | MSD | Water | | | | X | X | X | 3 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| ***Possible Hazard Identification*** *Unconfirmed* | ***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EETA | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Briana Sharkey-Gonzalez | Date/Time: 8/30/23 0900 | Company ETAPL |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.



10/11/2023

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 1 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-16 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AB | 904.0/PrecSep_0 AB | Ra226_228GFPC_P/ AB | 903.0/PrecSep_21 AB-16 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| HEN_18&D (500-238579-13) | 8/23/23 | 14:05 Central | | Water | | | X | X | X | | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | | X | X | X | | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | | X | X | X | | 2 | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_18#S (500-238579-51) | 8/28/23 | 08:35 Central | | Water | | | | X | X | X | 2 | |
| HEN_03R (500-238579-53) | 8/28/23 | 09:45 Central | | Water | | | | X | X | X | 2 | |
| HEN_03R (500-238579-53MS) | 8/28/23 | 09:45 Central | MS | Water | | | | X | X | X | 3 | |
| HEN_03R (500-238579-53MSD) | 8/28/23 | 09:45 Central | MSD | Water | | | | X | X | X | 3 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803
APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hemandez FED EX | 8/29/23 1500 | EEHA | FED EX | | |
| 2 | Relinquished by: | Date/Time: | Company | Received by: Briana Sharkey-Gonzalez | 8/30/23 0900 | ETAST |
| 3 | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-14 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 Y | 904.0/PrecSep_0 Y | Ra226_228GFPC_P/ Y | 903.0/PrecSep_21 Y-14 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| HEN_18&D (500-238579-13) | 8/23/23 | 14:05 Central | | Water | | | X | X | X | | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | | X | X | X | | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | | X | X | X | | 2 | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | | | X | X | X | | 2 | |
| HEN_257_FB (500-238579-42) | 8/25/23 | 12:00 Central | | Water | | | X | X | X | | 2 | |
| HEN_18#S (500-238579-51) | 8/28/23 | 08:35 Central | | Water | | | | X | X | X | 2 | |
| HEN_03R (500-238579-53) | 8/28/23 | 09:45 Central | | Water | | | | X | X | X | 2 | |
| HEN_03R (500-238579-53MS) | 8/28/23 | 09:45 Central | MS | Water | | | | X | X | X | 3 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hemmady | 8/29/23 1500 | EEA | FED EX | | |
| 2 | FED EX | | | Briana Sharkey - Hargeer | 8/30/23 0900 | ETAS |
| 3 | | | | | | |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks. |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803
APPENDIX A.


10/11/2023

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-14 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 Y | 904.0/PrecSep_0 Y | Ra226_228GFPC_P/ Y | 903.0/PrecSep_21 Y-14 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | |
| HEN_03R (500-238579-53MSD) | 8/28/23 | 09:45 Central | MSD | Water | | | | X | X | X | 3 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EEIA | FED EX | | |
| Relinquished by: FED EX | Date/Time: | Company | Received by: Briana Sharkey-Gonzalez | Date/Time: 8/30/23 0900 | Company GLSR |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-10 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AG | 904.0/PrecSep_0 AG | Ra226_228GFPC_P/ AG | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | |
| HEN_25 (500-238579-7) | 8/22/23 | 14:30 Central | | Water | | | X | X | X | 2 | |
| HEN_26 (500-238579-8) | 8/22/23 | 15:35 Central | | Water | | | X | X | X | 2 | |
| HEN_26_MS (500-238579-8MS) | 8/22/23 | 15:35 Central | MS | Water | | | X | X | X | 2 | |
| HEN_26_MSD (500-238579-8MSD) | 8/22/23 | 15:35 Central | MSD | Water | | | X | X | X | 2 | |
| HEN_XPW01_pore (500-238579-36) | 8/24/23 | 12:15 Central | | Water | | | X | X | X | 2 | |
| HEN_XPW01_pore_EB (500-238579-37) | 8/24/23 | 12:15 Central | | Water | | | X | X | X | 2 | |
| HEN_XPW02_pore (500-238579-38) | 8/24/23 | 13:45 Central | | Water | | | X | X | X | 2 | |
| HEN_XPW02_pore_EB (500-238579-39) | 8/24/23 | 13:45 Central | | Water | | | X | X | X | 4 | |
| HEN_XPW03_pore (500-238579-40) | 8/24/23 | 15:30 Central | | Water | | | X | X | X | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803
APPENDIX A.

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

***Possible Hazard Identification***
*Unconfirmed*

***Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)***
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|
| | | | |

| Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|
| Stephanie Hernandez | 8/29/23 1500 | EEA | FED EX | | |
| FED EX | | | Briana Sharkey-Gonzalez | 8/30/23 0900 | EEA |
| | | | | | |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-10 |
| Address: 13715 Rider Trail North, | Due Date Requested: 9/14/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 AG | 904.0/PrecSep_0 AG | Ra226_228GFPC_P/ AG | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | | | | | |
| HEN_XPW03_pore_EB (500-238579-41) | 8/24/23 | 15:30 Central | | Water | | | X | X | X | 2 | |

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803
APPENDIX A.

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| Possible Hazard Identification: Unconfirmed | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
|---|---|
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |
| Empty Kit Relinquished by: | Date: Time: Method of Shipment: |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Stephanie Hemandez | Date/Time: 8/29/23 1700 | Company EEIA | Received by: | Date/Time: | Company |
| Relinquished by: FED EX | Date/Time: | Company | Received by: FED EX Briana Sharkey - Manager | Date/Time: 8/30/23 0900 | Company EEIA |
| Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.1 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-1 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/25/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PrecSep_21 Y-14 | 904.0/PrecSep_0 Y | Ra226_228GFPC_P/ Y | 903.0/PrecSep_21 AB-16 | 904.0/PrecSep_0 AB | Ra226_228GFPC_P/ AB | 903.0/PrecSep_21 AE-18 | 904.0/PrecSep_0 AE | Ra226_228GFPC_P/ AE | 903.0/PrecSep_21 Z-21 | 904.0/PrecSep_0 Z | Ra226_228GFPC_P/ Z | 903.0/PrecSep_21 AC-23 | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | | | | | | | | | | | | |
| HEN_45#S (500-238579-56) | 8/28/23 | 11:15 Central | | Water | | | X | X | X | X | X | X | X | X | X | | | | | 2 | |
| HEN_16 (500-238579-58) | 8/28/23 | 08:35 Central | | Water | | | | | | | | | | | | X | X | X | X | 2 | |
| HEN_17 (500-238579-59) | 8/28/23 | 09:40 Central | | Water | | | | | | | | | | | | X | X | X | X | 2 | |
| HEN_17-FD (500-238579-60) | 8/28/23 | 09:40 Central | | Water | | | | | | | | | | | | X | X | X | X | 2 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| Possible Hazard Identification | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) |
|---|---|
| Unconfirmed | ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hernandez | 8/29/23 1500 | EETA | FED EX | | |
| 2 | FED EX | | | Briana Sharkey-Gonzalez | 8/30/23 0900 | EEATL |
| 3 | | | | | | |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

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10/11/2023

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257803

APPENDIX A.

**Eurofins Chicago**
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

# Chain of Custody Record

eurofins | Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): | COC No: 500-178415.2 |
|---|---|---|---|---|
| Client Contact: Shipping/Receiving | Phone: | E-Mail: Carlene.McCutcheon@et.eurofinsus.com | State of Origin: Illinois | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-1 |
| Address: 13715 Rider Trail North, , | Due Date Requested: 9/25/2023 | | | |
| City: Earth City | TAT Requested (days): | | | |
| State, Zip: MO, 63045 | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | WO #: | | | |
| Project Name: HEN-23Q3 | Project #: 50021987 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 904.0/PrecSep_0 AC | Ra226_228GFPC_P/ AC | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | | | | |
| HEN_45#S (500-238579-56) | 8/28/23 | 11:15 Central | | Water | | | | | 2 | |
| HEN_16 (500-238579-58) | 8/28/23 | 08:35 Central | | Water | | | X | X | 2 | |
| HEN_17 (500-238579-59) | 8/28/23 | 09:40 Central | | Water | | | X | X | 2 | |
| HEN_17-FD (500-238579-60) | 8/28/23 | 09:40 Central | | Water | | | X | X | 2 | |

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

| *Possible Hazard Identification* | *Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)* |
|---|---|
| *Unconfirmed* | ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months* |
| Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 | Special Instructions/QC Requirements: |

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
|---|---|---|---|---|---|---|
| 1 | Stephanie Hernandez | 8/29/23 1500 | EEIA | FED EX | | |
| 2 | FED EX | | | Briana Sharkey - Gonzalez | 8/30/23 0900 | ETSTL |
| 3 | | | | | | |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT EAST ASH POND
HEN-257803
APPENDIX A.

# Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-10
SDG Number: HEN_SUP_000_0 RAD

**Login Number: 238579**
**List Number: 1**
**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

| 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. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 0.6,0.7,0.3,1.2,0.8,0.4,0.1,2.9,1.7,3.7,1.0,2.8,0.2, 2.0,2.9,0.1,1.63.0,1.3,0.5,2 |
| 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. | False | |
| 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. | False | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| 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"). | False | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-10
SDG Number: HEN_SUP_000_0 RAD

**Login Number: 238579**
**List Number: 3**
**Creator: Sharkey-Gonzalez, Briana L**

**List Source: Eurofins St. Louis**
**List Creation: 08/30/23 01:27 PM**

| 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? | 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 | |
| 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 | |

# Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 903.0 - Radium-226 (GFPC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | |
|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | Ba (30-110) | Ba (30-110) | Ba (30-110) |
| 500-238579-1 | HEN_21R | 90.1 | 90.1 | 90.1 |
| 500-238579-3 | HEN_23 | 96.5 | 96.5 | 96.5 |
| 500-238579-4 | HEN_23_FD | 94.0 | 94.0 | 94.0 |
| 500-238579-5 | HEN_32 | 92.8 | 92.8 | 92.8 |
| 500-238579-6 | HEN_51 | 91.3 | 91.3 | 91.3 |
| 500-238579-7 | HEN_25 | 94.5 | 94.5 | 94.5 |
| 500-238579-8 | HEN_26 | 89.6 | 89.6 | 89.6 |
| 500-238579-8 MS | HEN_26_MS | 84.4 | 84.4 | 84.4 |
| 500-238579-8 MSD | HEN_26_MSD | 88.3 | 88.3 | 88.3 |
| 500-238579-13 | HEN_18&D | 93.1 | 93.1 | 93.1 |
| 500-238579-26 | HEN_27 | 95.3 | 95.3 | 95.3 |
| 500-238579-27 | HEN_35 | 93.5 | 93.5 | 93.5 |
| 500-238579-36 | HEN_XPW01_pore | 30.3 | 30.3 | 30.3 |
| 500-238579-37 | HEN_XPW01_pore_EB | 96.3 | 96.3 | 96.3 |
| 500-238579-38 | HEN_XPW02_pore | 99.3 | 99.3 | 99.3 |
| 500-238579-39 | HEN_XPW02_pore_EB | 93.1 | 93.1 | 93.1 |
| 500-238579-40 | HEN_XPW03_pore | 94.5 | 94.5 | 94.5 |
| 500-238579-41 | HEN_XPW03_pore_EB | 99.5 | 99.5 | 99.5 |
| 500-238579-42 | HEN_257_FB | 99.0 | 99.0 | 99.0 |
| 500-238579-44 | HEN_34 | 99.0 | 99.0 | 99.0 |
| 500-238579-45 | HEN_49 | 91.3 | 91.3 | 91.3 |
| 500-238579-45 MS | HEN_49_MS | 90.6 | 90.6 | 90.6 |
| 500-238579-45 MSD | HEN_49_MSD | 87.1 | 87.1 | 87.1 |
| 500-238579-46 | HEN_22 | 96.0 | 96.0 | 96.0 |
| 500-238579-47 | HEN_50 | 95.0 | 95.0 | 95.0 |
| 500-238579-50 | 845_803_FB | 97.3 | 97.3 | 97.3 |
| 500-238579-51 | HEN_18#S | 93.3 | 93.3 | 93.3 |
| 500-238579-53 | HEN_03R | 89.3 | 89.3 | 89.3 |
| 500-238579-53 MS | HEN_03R_MS | 90.3 | 90.3 | 90.3 |
| 500-238579-53 MSD | HEN_03R_MSD | 94.8 | 94.8 | 94.8 |
| 500-238579-56 | HEN_45#S | 93.5 | 93.5 | 93.5 |
| LCS 160-626172/2-A | Lab Control Sample | 93.1 | 93.1 | 93.1 |
| LCS 160-626178/2-A | Lab Control Sample | 100 | 100 | 100 |
| LCS 160-626180/2-A | Lab Control Sample | 94.0 | 94.0 | 94.0 |
| MB 160-626172/1-A | Method Blank | 89.8 | 89.8 | 89.8 |
| MB 160-626178/1-A | Method Blank | 99.3 | 99.3 | 99.3 |
| MB 160-626180/1-A | Method Blank | 94.8 | 94.8 | 94.8 |

**Tracer/Carrier Legend**

Ba = Ba Carrier

## Method: 903.0 - Radium-226 (GFPC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | | |
|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) |
| 500-238579-28 | HEN_07 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 |
| 500-238579-30 | HEN_08 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |
| 500-238579-32 | HEN_08&D | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 |

# Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 903.0 - Radium-226 (GFPC) (Continued)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Ba | Ba | Ba | Ba | Ba | | | |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | | | |
| 500-238579-34 | HEN_08_FD | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | | | |

**Tracer/Carrier Legend**

Ba = Ba Carrier

## Method: 903.0 - Radium-226 (GFPC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Ba | Ba | | | | | | |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) | | | | | | |
| 500-238579-2 | HEN_22&D | 91.3 | 91.3 | | | | | | |
| 500-238579-15 | HEN_12 | 95.8 | 95.8 | | | | | | |
| 500-238579-16 | HEN_13 | 85.4 | 85.4 | | | | | | |
| 500-238579-18 | HEN_46 | 90.1 | 90.1 | | | | | | |
| 500-238579-19 | HEN_47 | 93.1 | 93.1 | | | | | | |
| 500-238579-20 | HEN_54 | 91.8 | 91.8 | | | | | | |
| 500-238579-25 | HEN_52 | 89.6 | 89.6 | | | | | | |
| 500-238579-58 | HEN_16 | 99.3 | 99.3 | | | | | | |
| 500-238579-59 | HEN_17 | 93.5 | 93.5 | | | | | | |
| 500-238579-60 | HEN_17-FD | 91.1 | 91.1 | | | | | | |

**Tracer/Carrier Legend**

Ba = Ba Carrier

## Method: 904.0 - Radium-228 (GFPC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Ba | Y | Ba | Y | Y | Y | | |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | | |
| 500-238579-1 | HEN_21R | 90.1 | 82.6 | 90.1 | 82.6 | 82.6 | 82.6 | | |
| 500-238579-3 | HEN_23 | 96.5 | 78.9 | 96.5 | 78.9 | 78.9 | 78.9 | | |
| 500-238579-4 | HEN_23_FD | 94.0 | 80.0 | 94.0 | 80.0 | 80.0 | 80.0 | | |
| 500-238579-5 | HEN_32 | 92.8 | 78.1 | 92.8 | 78.1 | 78.1 | 78.1 | | |
| 500-238579-6 | HEN_51 | 91.3 | 82.2 | 91.3 | 82.2 | 82.2 | 82.2 | | |
| 500-238579-7 | HEN_25 | 94.5 | 79.6 | 94.5 | 79.6 | 79.6 | 79.6 | | |
| 500-238579-8 | HEN_26 | 89.6 | 82.6 | 89.6 | 82.6 | 82.6 | 82.6 | | |
| 500-238579-8 MS | HEN_26_MS | 84.4 | 77.0 | 84.4 | 77.0 | 77.0 | 77.0 | | |
| 500-238579-8 MSD | HEN_26_MSD | 88.3 | 81.9 | 88.3 | 81.9 | 81.9 | 81.9 | | |
| 500-238579-13 | HEN_18&D | 93.1 | 80.4 | 93.1 | 80.4 | 80.4 | 80.4 | | |
| 500-238579-26 | HEN_27 | 95.3 | 79.3 | 95.3 | 79.3 | 79.3 | 79.3 | | |
| 500-238579-27 | HEN_35 | 93.5 | 82.2 | 93.5 | 82.2 | 82.2 | 82.2 | | |
| 500-238579-36 | HEN_XPW01_pore | 30.3 | 85.6 | 30.3 | 85.6 | 85.6 | 85.6 | | |
| 500-238579-37 | HEN_XPW01_pore_EB | 96.3 | 87.5 | 96.3 | 87.5 | 87.5 | 87.5 | | |
| 500-238579-38 | HEN_XPW02_pore | 99.3 | 83.7 | 99.3 | 83.7 | 83.7 | 83.7 | | |
| 500-238579-39 | HEN_XPW02_pore_EB | 93.1 | 83.4 | 93.1 | 83.4 | 83.4 | 83.4 | | |
| 500-238579-40 | HEN_XPW03_pore | 94.5 | 81.5 | 94.5 | 81.5 | 81.5 | 81.5 | | |
| 500-238579-41 | HEN_XPW03_pore_EB | 99.5 | 81.5 | 99.5 | 81.5 | 81.5 | 81.5 | | |
| 500-238579-42 | HEN_257_FB | 99.0 | 83.4 | 99.0 | 83.4 | 83.4 | 83.4 | | |
| 500-238579-44 | HEN_34 | 99.0 | 82.6 | 99.0 | 82.6 | 82.6 | 82.6 | | |
| 500-238579-45 | HEN_49 | 91.3 | 84.9 | 91.3 | 84.9 | 84.9 | 84.9 | | |

# Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | Ba | Y | Ba | Y | Y | Y |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) |
| 500-238579-45 MS | HEN_49_MS | 90.6 | 79.6 | 90.6 | 79.6 | 79.6 | 79.6 |
| 500-238579-45 MSD | HEN_49_MSD | 87.1 | 84.1 | 87.1 | 84.1 | 84.1 | 84.1 |
| 500-238579-46 | HEN_22 | 96.0 | 86.7 | 96.0 | 86.7 | 86.7 | 86.7 |
| 500-238579-47 | HEN_50 | 95.0 | 84.1 | 95.0 | 84.1 | 84.1 | 84.1 |
| 500-238579-50 | 845_803_FB | 97.3 | 83.7 | 97.3 | 83.7 | 83.7 | 83.7 |
| 500-238579-51 | HEN_18#S | 93.3 | 81.9 | 93.3 | 81.9 | 81.9 | 81.9 |
| 500-238579-53 | HEN_03R | 89.3 | 84.5 | 89.3 | 84.5 | 84.5 | 84.5 |
| 500-238579-53 MS | HEN_03R_MS | 90.3 | 80.0 | 90.3 | 80.0 | 80.0 | 80.0 |
| 500-238579-53 MSD | HEN_03R_MSD | 94.8 | 89.3 | 94.8 | 89.3 | 89.3 | 89.3 |
| 500-238579-56 | HEN_45#S | 93.5 | 81.9 | 93.5 | 81.9 | 81.9 | 81.9 |
| LCS 160-626177/2-A | Lab Control Sample | 93.1 | 84.1 | 93.1 | 84.1 | 84.1 | 84.1 |
| LCS 160-626179/2-A | Lab Control Sample | 100 | 87.5 | 100 | 87.5 | 87.5 | 87.5 |
| LCS 160-626182/2-A | Lab Control Sample | 94.0 | 81.5 | 94.0 | 81.5 | 81.5 | 81.5 |
| MB 160-626177/1-A | Method Blank | 89.8 | 85.2 | 89.8 | 85.2 | 85.2 | 85.2 |
| MB 160-626179/1-A | Method Blank | 99.3 | 82.2 | 99.3 | 82.2 | 82.2 | 82.2 |
| MB 160-626182/1-A | Method Blank | 94.8 | 90.8 | 94.8 | 90.8 | 90.8 | 90.8 |

**Tracer/Carrier Legend**

Ba = Ba Carrier
Y = Y Carrier

## Method: 904.0 - Radium-228 (GFPC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Ba | Ba | Ba | Ba | Ba | Y | Y | Y |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) | (30-110) |
| 500-238579-28 | HEN_07 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 77.4 | 77.4 | 77.4 |
| 500-238579-30 | HEN_08 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 81.9 | 81.9 | 81.9 |
| 500-238579-32 | HEN_08&D | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 82.6 | 82.6 | 82.6 |
| 500-238579-34 | HEN_08_FD | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 85.6 | 85.6 | 85.6 |

| | | Percent Yield (Acceptance Limits) | |
|---|---|---|---|
| | | Y | Y |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) |
| 500-238579-28 | HEN_07 | 77.4 | 77.4 |
| 500-238579-30 | HEN_08 | 81.9 | 81.9 |
| 500-238579-32 | HEN_08&D | 82.6 | 82.6 |
| 500-238579-34 | HEN_08_FD | 85.6 | 85.6 |

**Tracer/Carrier Legend**

Ba = Ba Carrier
Y = Y Carrier

## Method: 904.0 - Radium-228 (GFPC)

**Matrix: Water** — **Prep Type: Total/NA**

| | | Percent Yield (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | Ba | Ba | Y | Y |
| Lab Sample ID | Client Sample ID | (30-110) | (30-110) | (30-110) | (30-110) |
| 500-238579-2 | HEN_22&D | 91.3 | 91.3 | 81.9 | 81.9 |
| 500-238579-15 | HEN_12 | 95.8 | 95.8 | 80.0 | 80.0 |
| 500-238579-16 | HEN_13 | 85.4 | 85.4 | 77.4 | 77.4 |

# Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-23Q3

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

## Method: 904.0 - Radium-228 (GFPC) (Continued)

**Matrix: Water** **Prep Type: Total/NA**

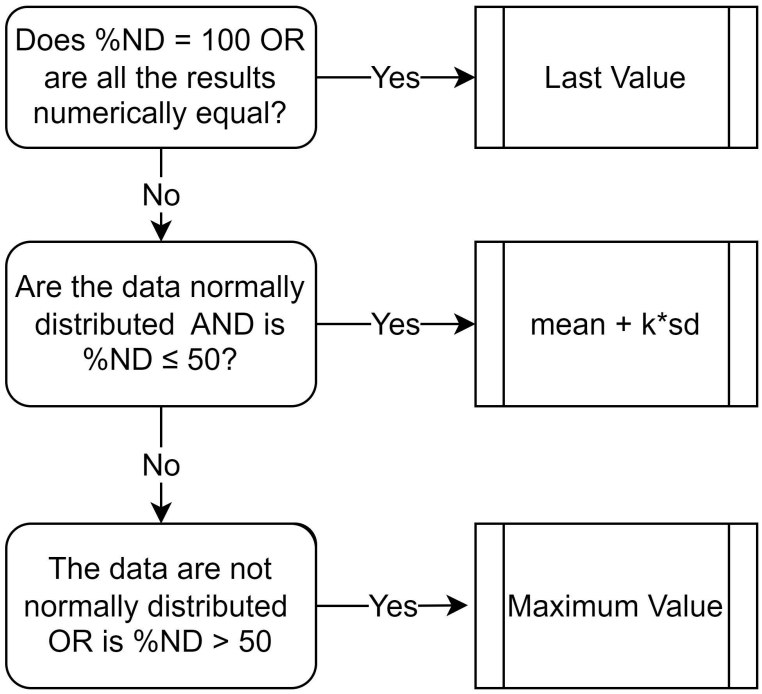
| | | Percent Yield (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | Ba (30-110) | Ba (30-110) | Y (30-110) | Y (30-110) |
| 500-238579-18 | HEN_46 | 90.1 | 90.1 | 80.4 | 80.4 |
| 500-238579-19 | HEN_47 | 93.1 | 93.1 | 79.3 | 79.3 |
| 500-238579-20 | HEN_54 | 91.8 | 91.8 | 79.3 | 79.3 |
| 500-238579-25 | HEN_52 | 89.6 | 89.6 | 74.8 | 74.8 |
| 500-238579-58 | HEN_16 | 99.3 | 99.3 | 83.4 | 83.4 |
| 500-238579-59 | HEN_17 | 93.5 | 93.5 | 83.4 | 83.4 |
| 500-238579-60 | HEN_17-FD | 91.1 | 91.1 | 77.8 | 77.8 |

**Tracer/Carrier Legend**

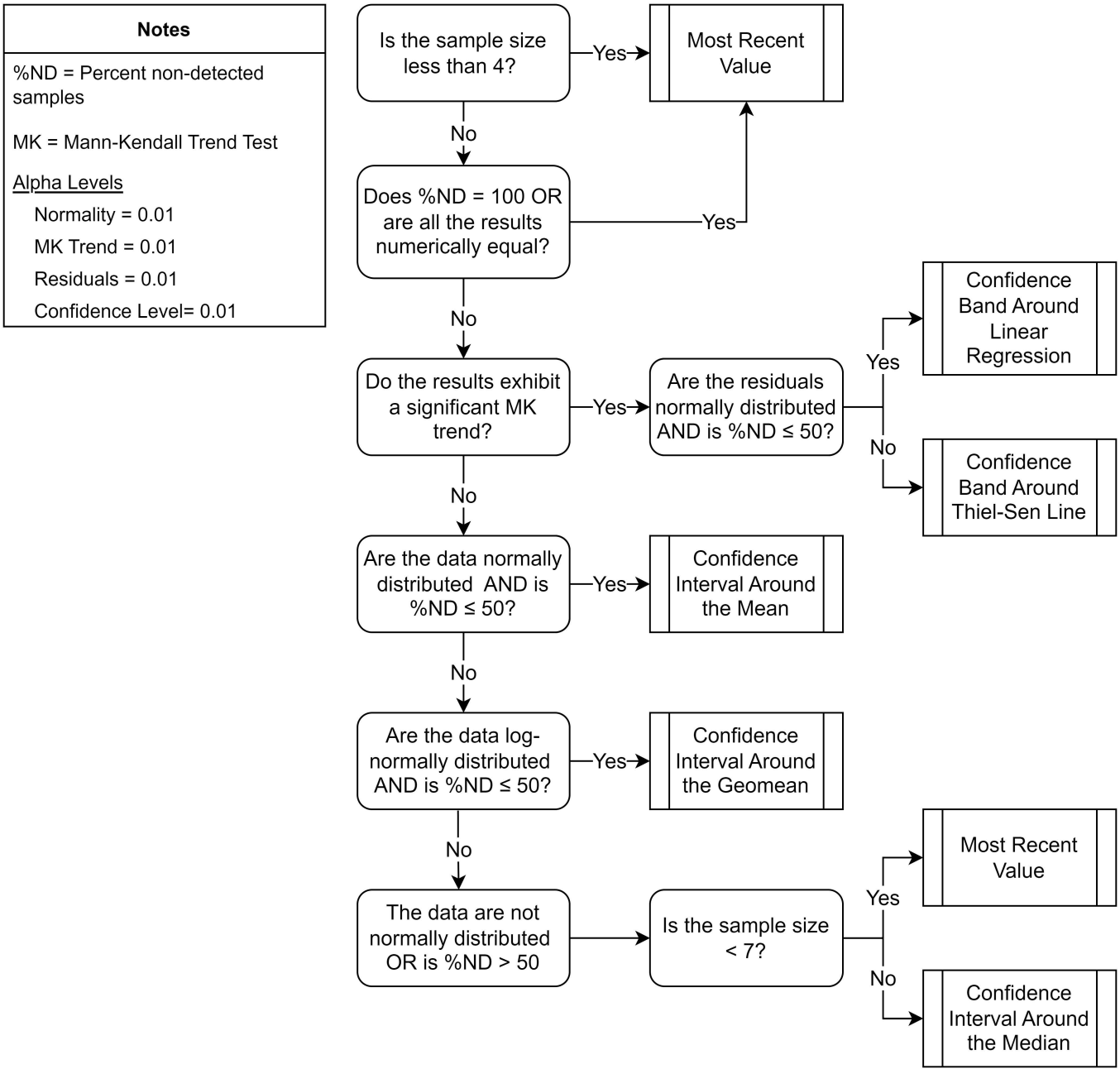
Ba = Ba Carrier
Y = Y Carrier

# APPENDIX B
# STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES

| Notes |
| --- |
| %ND = Percent non-detected samples<br>sd = standard deviation<br>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