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Dynegy Midwest Generation, LLC

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**2022 ANNUAL GROUNDWATER
MONITORING AND CORRECTIVE
ACTION REPORT**
FLY ASH POND SYSTEM
BALDWIN POWER PLANT
BALDWIN, ILLINOIS
CCR UNIT 605

**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT FLY ASH POND SYSTEM**

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ACRONYMS AND ABBREVIATIONS

| | |
|-----------|--|
| § | Section |
| 35 I.A.C. | Title 35 of the Illinois Administrative Code |
| 40 C.F.R. | Title 40 of the Code of Federal Regulations |
| ASD | Alternate Source Demonstration |
| BPP | Baldwin Power Plant |
| CCR | coal combustion residuals |
| CMA | Corrective Measures Assessment |
| FAPS | Fly Ash Pond System |
| GWPS | groundwater protection standard |
| IEPA | Illinois Environmental Protection Agency |
| NA | not applicable |
| NRT/OBG | Natural Resource Technology, an OBG Company |
| OBG | OBG, Part of Ramboll |
| Ramboll | Ramboll Americas Engineering Solutions, Inc. |
| SAP | Sampling and Analysis Plan |
| 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.) Section (§) 257.90(e) for the Fly Ash Pond System (FAPS) located at the Baldwin Power Plant (BPP) near Baldwin, Illinois.

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

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

No Statistically Significant Levels (SSLs) of 40 C.F.R. § 257 Appendix IV parameters were determined. Consequently, further evaluation of total lithium for corrective action is not warranted for the FAPS and the FAPS remains in the Assessment Monitoring Program.

As required by 40 C.F.R. § 257.95(g)(3)(i), a Corrective Measures Assessment (CMA) (OBG, Part of Ramboll [OBG], 2019) following the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and completed on September 5, 2019.

A public meeting was held on December 2, 2019 at the the Red Bud High School Gymnasium in Red Bud, Illinois to discuss the results of the CMA in accordance with 40 C.F.R. § 257.96(e).

The CMA was revised on November 30, 2020 (Ramboll Americas Engineering Solutions, Inc. [Ramboll], 2020) to address SSLs based on the 2020 assessment monitoring results, include additional information related to site geology/hydrogeology, and focus on application of the evaluation factors identified in 40 C.F.R. § 257.96(c) to potential groundwater corrective measures.

Remedy selection will take into consideration compliance with both 40 C.F.R. § 257 and 35 I.A.C. § 845, the latter of which cannot be completed until IEPA approves the groundwater monitoring program and issues an operating permit. In accordance with 40 C.F.R. § 257.97, remedy selection is to be completed as soon as feasible following completion of the corrective measures assessment. As required by 35 I.A.C. § 845.670, a corrective action plan that identifies the selected remedy must be submitted to IEPA within one year after completing the assessment of corrective measures. It is anticipated that these activities related to 35 I.A.C. § 845 compliance will occur in 2023 with submittal of a corrective action plan in 2024 that meets both 40 C.F.R. § 257 and 35 I.A.C. Part 845.

1. INTRODUCTION

This report has been prepared by Ramboll on behalf of Dynegy Midwest Generation, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for the FAPS located at the BPP near Baldwin, Illinois.

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

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

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

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

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

Groundwater is being monitored at the FAPS in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated on April 9, 2018. SSLs were determined for the FAPS and alternate source evaluations were inconclusive for one or more SSLs. In accordance with 40 C.F.R. § 257.95(g)(5), a CMA following the requirements of 40 C.F.R. § 257.96 was initiated on May 8, 2019 and completed on September 5, 2019.

A public meeting was held on December 2, 2019 at the the Red Bud High School Gymnasium in Red Bud, Illinois to discuss the results of the CMA in accordance with 40 C.F.R. § 257.96(e).

The CMA was revised on November 30, 2020 to address SSLs based on the 2020 assessment monitoring results, include additional information related to site geology/hydrogeology, and focus on application of the evaluation factors identified in 40 C.F.R. § 257.96(c) to potential groundwater corrective measures. No Statistically Significant Levels (SSLs) of 40 C.F.R. § 257 Appendix IV parameters were determined in 2022. Consequently, further evaluation of total lithium for corrective action is not warranted for the FAPS and the FAPS remains in the Assessment Monitoring Program.

Remedy selection will take into consideration compliance with both 40 C.F.R. § 257 and 35 I.A.C. § 845, the latter of which cannot be completed until IEPA approves the groundwater monitoring program and issues an operating permit. In accordance with 40 C.F.R. § 257.97, remedy selection is to be completed as soon as feasible following completion of the corrective measures assessment. As required by 35 I.A.C. § 845.670, a corrective action plan that identifies the selected remedy must be submitted to IEPA within one year after completing the assessment of corrective measures. It is anticipated that these activities related to 35 I.A.C. § 845 compliance will occur in 2023 with submittal of a corrective action plan in 2024 that meets both 40 C.F.R. § 257 and 35 I.A.C. Part 845.

3. KEY ACTIONS COMPLETED IN 2022

The Assessment Monitoring Program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2022 (no wells were installed or decommissioned). In general, one groundwater sample was collected from each background and compliance well during each monitoring event. All samples were collected and analyzed in accordance with the Sampling and Analysis Plan (SAP; Natural Resource Technology, an OBG Company [NRT/OBG], 2017a), and the Statistical Analysis Plan (NRT/OBG, 2017b). Potentiometric surface maps for third quarter of 2021 and both monitoring events in 2022 are included in **Figures 2 through 4**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 (as applicable) in the third quarter of 2021 and both monitoring events in 2022 are presented in **Tables 1 through 3**. Laboratory reports for the third quarter of 2021 and both monitoring events in 2022 are included in **Appendix A**.

Analytical data were evaluated in accordance with the Statistical Analysis Plan (NRT/OBG, 2017b) to determine any SSLs of Appendix IV parameters over GWPSs. Notifications were completed in accordance with 40 C.F.R. § 257.95(g). Statistical background values are provided in **Table 4** and GWPSs in **Table 5**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**. A summary of the determination of SSLs is included in **Table 6**. A flow chart showing the statistical methodology for determination of SSLs is included as **Appendix C**.

No Statistically Significant Levels (SSLs) of 40 C.F.R. § 257 Appendix IV parameters were determined. Consequently, further evaluation of total lithium for corrective action is not warranted for the FAPS and the FAPS remains in the Assessment Monitoring Program. Semiannual remedy selection reports required by 40 C.F.R. § 257.97(a) were completed in March and September of 2022.

Table A. 2021-2022 Assessment Monitoring Program Summary

| Sampling Dates | Analytical Data Receipt Date | Parameters Collected | SSL(s) | SSL(s) Determination Date | CMA Initiated |
|-----------------------|------------------------------|---|--------|---------------------------|---------------|
| September 13-16, 2021 | October 13, 2021 | Appendix III Appendix IV Detected ¹ | None | January 11, 2022 | NA |
| March 28-29, 2022 | May 12, 2022 | Appendix III Appendix IV | None | August 10, 2022 | NA |
| September 29-30, 2022 | November 15, 2022 | Appendix III Appendix IV Detected ¹ | None | January 30, 2023 | NA |

Notes:

ASD: Alternate Source Demonstration

NA: not applicable

SSL: Statistically Significant Level

TBD: to be determined

¹ Groundwater sample analysis was limited to Appendix IV parameters detected during previous events in accordance with 40 C.F.R. § 257.95(d)(1).

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

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

5. KEY ACTIVITIES PLANNED FOR 2023

The following key activities are planned for 2023:

- Beginning in 2023, the current monitoring well system will be updated to use the same monitoring well network that was proposed for compliance with 35 I.A.C. § 845 which includes all of the monitoring wells used in the 2022 monitoring system. This is a logical step toward aligning the two regulatory programs. The following documents support the expanded monitoring system for 2023:
 - Hydrogeological Site Characterization Report (Ramboll, 2021), which expands upon the hydrogeologic information provided in the Hydrogeologic Monitoring Plan
 - Multi-Site SAP (Ramboll, 2022a)
 - Multi-Site Quality Assurance Project Plan (Ramboll, 2022b)
 - Multi-Site Data Management Plan (Ramboll, 2022c)
 - Multi-Site Statistical Analysis Plan and Certification (Ramboll, 2022d)
 - 40 C.F.R. § 257 Groundwater Monitoring Plan (Ramboll, 2022e), which replaces the monitoring plan provided in the Hydrogeologic Monitoring Plan
 - Monitoring Well Network Certification
- Continuation of the Assessment Monitoring Program with semi-annual sampling scheduled for the first and third quarters of 2023.
- Complete evaluation of analytical data from the compliance wells to determine whether an SSL of Appendix IV parameters using GWPSs has occurred.
- Remedy selection will take into consideration compliance with both 40 C.F.R. § 257 and 35 I.A.C. § 845; semiannual progress reports required by 40 C.F.R. § 257.97(a) will continue to be completed and posted to the publicly accessible website as required by 40 C.F.R. § 257.107(h)(9).

6. REFERENCES

Natural Resource Technology, an OBG Company (NRT/OBG), 2017a, Sampling and Analysis Plan, Baldwin Fly Ash Pond System, Baldwin Energy Complex, Baldwin, Illinois, Project No. 2285, Revision 0, October 17, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017b. Statistical Analysis Plan, Baldwin Energy Complex, Havana Power Station, Hennepin Power Station, Wood River Power Station, Dynegy Midwest Generation, LLC, October 17, 2017.

OBG, Part of Ramboll (OBG), 2019. Corrective Measures Assessment, Baldwin Fly Ash Pond System (FAPS), Baldwin Energy Complex, 10901 Baldwin Road, Baldwin, Illinois, Dynegy Midwest Generation, LLC, September 5, 2019.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2020. Corrective Measures Assessment Revision 2, Baldwin Fly Ash Pond System (FAPS), Baldwin Energy Complex, 10901 Baldwin Road, Baldwin, Illinois, Dynegy Midwest Generation, LLC, November 30, 2020.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. Hydrogeological Site Characterization Report, the Fly Ash Pond System, Baldwin Power Plant, Baldwin, Illinois. October 21, 2021.

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

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

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

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

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022e. 40 C.F.R. § 257 Groundwater Monitoring Plan, the Fly Ash Pond System, Baldwin Power Plant, Baldwin, Illinois. December 28, 2022.

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Well ID | Monitored Unit | Well Screen Interval (feet BGS) | Well Type | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|----------|----------------|---------------------------------|------------------|----------------------------|-----------------------------|------------|---------------------------------|-------------------------------------|
| MW-104SR | PMP | 4.8 - 14.8 | Water Level Only | 38.18836 | -89.85343 | 09/13/2021 | 12.63 | 442.91 |
| MW-104SR | PMP | 4.8 - 14.8 | Water Level Only | 38.18836 | -89.85343 | 03/28/2022 | 8.03 | 447.51 |
| MW-104SR | PMP | 4.8 - 14.8 | Water Level Only | 38.18836 | -89.85343 | 09/29/2022 | 13.45 | 442.09 |
| MW-104DR | PMP | 23.2 - 28.2 | Water Level Only | 38.18834 | -89.85343 | 09/13/2021 | 12.65 | 442.97 |
| MW-104DR | PMP | 23.2 - 28.2 | Water Level Only | 38.18834 | -89.85343 | 03/28/2022 | 8.10 | 447.52 |
| MW-104DR | PMP | 23.2 - 28.2 | Water Level Only | 38.18834 | -89.85343 | 09/29/2022 | 14.00 | 441.62 |
| MW-150 | PMP | 15 - 24.7 | Water Level Only | 38.18940 | -89.87847 | 09/13/2021 | 20.39 | 376.15 |
| MW-150 | PMP | 15 - 24.7 | Water Level Only | 38.18940 | -89.87847 | 03/28/2022 | 17.15 | 379.39 |
| MW-150 | PMP | 15 - 24.7 | Water Level Only | 38.18940 | -89.87847 | 09/29/2022 | 20.65 | 375.89 |
| MW-151 | PMP | 6.1 - 15.8 | Water Level Only | 38.18845 | -89.87235 | 09/13/2021 | 6.26 | 393.70 |
| MW-151 | PMP | 6.1 - 15.8 | Water Level Only | 38.18845 | -89.87235 | 03/28/2022 | 4.16 | 395.80 |
| MW-151 | PMP | 6.1 - 15.8 | Water Level Only | 38.18845 | -89.87235 | 09/29/2022 | 6.87 | 393.09 |
| MW-152 | PMP | 7.5 - 16.7 | Water Level Only | 38.18757 | -89.86676 | 09/13/2021 | 7.35 | 417.64 |
| MW-152 | PMP | 7.5 - 16.7 | Water Level Only | 38.18757 | -89.86676 | 03/28/2022 | 5.20 | 419.79 |
| MW-152 | PMP | 7.5 - 16.7 | Water Level Only | 38.18757 | -89.86676 | 09/29/2022 | 6.99 | 418.00 |
| MW-153 | PMP | 10.4 - 20 | Water Level Only | 38.18588 | -89.86101 | 09/13/2021 | 15.20 | 430.47 |
| MW-153 | PMP | 10.4 - 20 | Water Level Only | 38.18588 | -89.86101 | 03/28/2022 | 8.90 | 436.77 |
| MW-153 | PMP | 10.4 - 20 | Water Level Only | 38.18588 | -89.86101 | 09/29/2022 | 16.85 | 428.82 |
| MW-154 | PMP | 7.5 - 12.2 | Water Level Only | 38.19655 | -89.88373 | 09/13/2021 | 14.35 | 373.41 |
| MW-154 | PMP | 7.5 - 12.2 | Water Level Only | 38.19655 | -89.88373 | 03/28/2022 | 4.99 | 382.77 |
| MW-155 | PMP | 10.3 - 19.9 | Water Level Only | 38.19331 | -89.88288 | 09/13/2021 | 19.79 | 373.76 |
| MW-155 | PMP | 10.3 - 19.9 | Water Level Only | 38.19331 | -89.88288 | 03/28/2022 | 17.65 | 375.90 |
| MW-252 | PMP | 44.4 - 49 | Water Level Only | 38.18756 | -89.86674 | 09/13/2021 | 1.57 | 423.50 |
| MW-252 | PMP | 44.4 - 49 | Water Level Only | 38.18756 | -89.86674 | 03/28/2022 | 1.28 | 423.79 |
| MW-252 | PMP | 44.4 - 49 | Water Level Only | 38.18756 | -89.86674 | 09/29/2022 | 8.19 | 416.88 |
| MW-253 | PMP | 29.9 - 34.5 | Water Level Only | 38.18588 | -89.86103 | 09/13/2021 | 14.65 | 431.19 |
| MW-253 | PMP | 29.9 - 34.5 | Water Level Only | 38.18588 | -89.86103 | 03/28/2022 | 10.73 | 435.11 |
| MW-253 | PMP | 29.9 - 34.5 | Water Level Only | 38.18588 | -89.86103 | 09/29/2022 | 15.98 | 429.86 |
| MW-304 | UA | 45 - 55 | Background | 38.18833 | -89.85344 | 09/13/2021 | 10.09 | 445.40 |
| MW-304 | UA | 45 - 55 | Background | 38.18833 | -89.85344 | 03/28/2022 | 9.50 | 445.99 |
| MW-304 | UA | 45 - 55 | Background | 38.18833 | -89.85344 | 09/29/2022 | 10.28 | 445.21 |

TABLE 1
GROUNDWATER ELEVATIONS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Well ID | Monitored Unit | Well Screen Interval (feet BGS) | Well Type | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---------|----------------|---------------------------------|------------------|----------------------------|-----------------------------|------------|---------------------------------|-------------------------------------|
| MW-306 | UA | 72.7 - 87.7 | Background | 38.20114 | -89.84676 | 09/13/2021 | 10.18 | 442.99 |
| MW-306 | UA | 72.7 - 87.7 | Background | 38.20114 | -89.84676 | 03/28/2022 | 17.19 | 435.98 |
| MW-306 | UA | 72.7 - 87.7 | Background | 38.20114 | -89.84676 | 09/29/2022 | 17.96 | 435.21 |
| MW-350 | UA | 41.6 - 46.2 | Compliance | 38.18942 | -89.87848 | 09/13/2021 | 23.38 | 373.42 |
| MW-350 | UA | 41.6 - 46.2 | Compliance | 38.18942 | -89.87848 | 03/28/2022 | 23.10 | 373.70 |
| MW-350 | UA | 41.6 - 46.2 | Compliance | 38.18942 | -89.87848 | 09/29/2022 | 23.95 | 372.85 |
| MW-352 | UA | 67.9 - 72.5 | Water Level Only | 38.18755 | -89.86673 | 09/13/2021 | 3.73 | 421.31 |
| MW-352 | UA | 67.9 - 72.5 | Water Level Only | 38.18755 | -89.86673 | 03/28/2022 | 0.40 | 424.64 |
| MW-352 | UA | 67.9 - 72.5 | Water Level Only | 38.18755 | -89.86673 | 09/29/2022 | 0.40 | 424.64 |
| MW-355 | UA | 27.4 - 32 | Water Level Only | 38.19331 | -89.88286 | 09/13/2021 | 24.33 | 369.36 |
| MW-355 | UA | 27.4 - 32 | Water Level Only | 38.19331 | -89.88286 | 03/28/2022 | 21.63 | 372.06 |
| MW-355 | UA | 27.4 - 32 | Water Level Only | 38.19331 | -89.88286 | 09/29/2022 | 24.30 | 369.39 |
| MW-356 | UA | 56 - 66 | Water Level Only | 38.19896 | -89.86958 | 09/13/2021 | 3.99 | 423.61 |
| MW-356 | UA | 56 - 66 | Water Level Only | 38.19896 | -89.86958 | 03/28/2022 | 4.20 | 423.40 |
| MW-356 | UA | 56 - 66 | Water Level Only | 38.19896 | -89.86958 | 09/30/2022 | 4.32 | 423.28 |
| MW-366 | UA | 42 - 52 | Compliance | 38.19219 | -89.87234 | 09/13/2021 | 17.19 | 407.89 |
| MW-366 | UA | 42 - 52 | Compliance | 38.19219 | -89.87234 | 03/28/2022 | 10.52 | 414.56 |
| MW-366 | UA | 42 - 52 | Compliance | 38.19219 | -89.87234 | 09/30/2022 | 17.91 | 407.17 |
| MW-369 | UA | 56 - 66 | Water Level Only | 38.19699 | -89.87026 | 09/13/2021 | 13.80 | 408.91 |
| MW-369 | UA | 56 - 66 | Water Level Only | 38.19699 | -89.87026 | 03/28/2022 | 8.43 | 414.28 |
| MW-369 | UA | 56 - 66 | Water Level Only | 38.19699 | -89.87026 | 09/30/2022 | 14.55 | 408.16 |
| MW-370 | UA | 53 - 63 | Water Level Only | 38.19560 | -89.86967 | 09/13/2021 | 18.99 | 401.86 |
| MW-370 | UA | 53 - 63 | Water Level Only | 38.19560 | -89.86967 | 03/28/2022 | 17.54 | 403.31 |
| MW-370 | UA | 53 - 63 | Water Level Only | 38.19560 | -89.86967 | 09/30/2022 | 18.90 | 401.95 |
| MW-375 | UA | 57 - 67 | Compliance | 38.18905 | -89.87351 | 09/13/2021 | 32.04 | 391.01 |
| MW-375 | UA | 57 - 67 | Compliance | 38.18905 | -89.87351 | 03/28/2022 | 31.16 | 391.89 |
| MW-375 | UA | 57 - 67 | Compliance | 38.18905 | -89.87351 | 09/30/2022 | 33.25 | 389.80 |
| MW-377 | UA | 46 - 56 | Compliance | 38.18839 | -89.86974 | 09/13/2021 | 5.25 | 416.11 |
| MW-377 | UA | 46 - 56 | Compliance | 38.18839 | -89.86974 | 03/28/2022 | 4.98 | 416.38 |
| MW-377 | UA | 46 - 56 | Compliance | 38.18839 | -89.86974 | 09/30/2022 | 6.09 | 415.27 |
| MW-382 | UA | 56 - 66 | Water Level Only | 38.19454 | -89.86804 | 09/13/2021 | 16.59 | 414.60 |
| MW-382 | UA | 56 - 66 | Water Level Only | 38.19454 | -89.86804 | 03/28/2022 | 16.38 | 414.81 |
| MW-382 | UA | 56 - 66 | Water Level Only | 38.19454 | -89.86804 | 09/30/2022 | 16.90 | 414.29 |
| MW-383 | UA | 58 - 68 | Compliance | 38.19491 | -89.85829 | 09/13/2021 | 18.51 | 440.98 |
| MW-383 | UA | 58 - 68 | Compliance | 38.19491 | -89.85829 | 03/28/2022 | 18.42 | 441.07 |
| MW-383 | UA | 58 - 68 | Compliance | 38.19491 | -89.85829 | 09/30/2022 | 18.96 | 440.53 |

TABLE 1
GROUNDWATER ELEVATIONS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Well ID | Monitored Unit | Well Screen Interval (feet BGS) | Well Type | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|---------|----------------|---------------------------------|------------------|----------------------------|-----------------------------|------------|---------------------------------|-------------------------------------|
| MW-384 | UA | 60.5 - 70.5 | Compliance | 38.19179 | -89.86070 | 09/13/2021 | 13.58 | 445.37 |
| MW-384 | UA | 60.5 - 70.5 | Compliance | 38.19179 | -89.86070 | 03/28/2022 | 13.75 | 445.20 |
| MW-384 | UA | 60.5 - 70.5 | Compliance | 38.19179 | -89.86070 | 09/30/2022 | 14.40 | 444.55 |
| MW-390 | UA | 50 - 65 | Compliance | 38.19296 | -89.86979 | 09/13/2021 | 8.01 | 420.05 |
| MW-390 | UA | 50 - 65 | Compliance | 38.19296 | -89.86979 | 03/28/2022 | 4.62 | 423.44 |
| MW-390 | UA | 50 - 65 | Compliance | 38.19296 | -89.86979 | 09/30/2022 | 8.91 | 419.15 |
| MW-391 | UA | 55 - 70 | Compliance | 38.19087 | -89.87476 | 09/13/2021 | 50.18 | 376.45 |
| MW-391 | UA | 55 - 70 | Compliance | 38.19087 | -89.87476 | 03/28/2022 | 52.91 | 373.72 |
| MW-391 | UA | 55 - 70 | Compliance | 38.19087 | -89.87476 | 09/30/2022 | 56.90 | 369.73 |
| OW-156 | PMP | 7.9 - 17.2 | Water Level Only | 38.19897 | -89.86959 | 09/13/2021 | 9.38 | 418.49 |
| OW-156 | PMP | 7.9 - 17.2 | Water Level Only | 38.19897 | -89.86959 | 03/28/2022 | 3.60 | 424.27 |
| OW-156 | PMP | 7.9 - 17.2 | Water Level Only | 38.19897 | -89.86959 | 09/30/2022 | 7.02 | 420.85 |
| OW-157 | PMP | 7.8 - 17.1 | Water Level Only | 38.19384 | -89.86738 | 09/13/2021 | 7.35 | 425.29 |
| OW-157 | PMP | 7.8 - 17.1 | Water Level Only | 38.19384 | -89.86738 | 03/28/2022 | 5.09 | 427.55 |
| OW-157 | PMP | 7.8 - 17.1 | Water Level Only | 38.19384 | -89.86738 | 09/30/2022 | 7.12 | 425.52 |
| TPZ-164 | CCR | 5.2 - 9.7 | Water Level Only | 38.19559 | -89.86280 | 03/28/2022 | 3.96 | 431.14 |
| TPZ-164 | CCR | 5.2 - 9.7 | Water Level Only | 38.19559 | -89.86280 | 09/30/2022 | 5.05 | 430.05 |

Notes:

BGS = below ground surface
 BMP = below measuring point
 NAVD88 = North American Vertical Datum of 1988
 Monitored Unit Abbreviations:
 CCR = coal combustion residuals
 PMP = potential migration pathway
 UA = uppermost aquifer

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Well ID | Well Type | Date | Event ID | Boron, total (mg/L) | Calcium, total (mg/L) | Chloride, total (mg/L) | Fluoride, total (mg/L) | pH (field) (SU) | Sulfate, total (mg/L) | Total Dissolved Solids (mg/L) |
|----------------------------|------------|------------|----------|---------------------|-----------------------|------------------------|------------------------|-----------------|-----------------------|-------------------------------|
| <i>Background Value(s)</i> | -- | -- | -- | 1.84 | 69.0 | 153 | 1.88 | 7.4/11.5 | 208 | 1,420 |
| MW-304 | Background | 09/14/2021 | A4D | 1.61 | 13.3 | 168 | 1.60 | 7.7 | 231 | 1,290 |
| MW-304 | Background | 03/28/2022 | A5 | 1.71 | 14.5 | 161 | 1.76 | 7.8 | 198 | 1,410 |
| MW-304 | Background | 09/29/2022 | A5D | 1.75 J | 10.2 | 174 | 1.70 | 7.7 | 199 | 1,470 |
| MW-306 | Background | 09/16/2021 | A4D | 0.025 U | 594 | 96.0 | 0.130 | 12.0 | 20 U | 934 |
| MW-306 | Background | 03/29/2022 | A5 | 0.120 | 47.3 | 63.0 | 0.550 | 10.9 | 41.0 | 298 |
| MW-306 | Background | 09/29/2022 | A5D | 0.110 | 39.8 | 68.0 | 0.490 | 11.3 | 41.0 | 300 |
| MW-350 | Compliance | 09/14/2021 | A4D | 0.622 | 25.1 | 29.0 | 0.150 | 8.0 | 99.0 | 402 |
| MW-350 | Compliance | 03/28/2022 | A5 | 0.900 | 124 | 58.0 | 0.220 | 11.6 | 74.0 | 494 |
| MW-350 | Compliance | 09/29/2022 | A5D | 0.669 | 72.0 | 65.0 | 0.170 | 11.6 | 113 | 382 |
| MW-366 | Compliance | 09/15/2021 | A4D | 1.67 | 181 | 47.0 | 0.460 | 6.8 | 597 | 1,140 |
| MW-366 | Compliance | 03/29/2022 | A5 | 1.87 | 186 | 46.0 | 0.580 | 6.8 | 583 | 1,230 |
| MW-366 | Compliance | 09/30/2022 | A5D | 2.70 | 227 | 56.0 | 0.360 | 6.8 | 700 | 1,350 |
| MW-375 | Compliance | 09/14/2021 | A4D | 1.33 | 11.8 | 114 | 2.38 | 7.8 | 176 | 976 |
| MW-375 | Compliance | 03/28/2022 | A5 | 1.54 | 11.0 | 106 | 2.54 | 7.8 | 160 | 1,020 |
| MW-375 | Compliance | 09/30/2022 | A5D | 1.75 | 12.7 | 118 | 2.35 | 7.8 | 160 | 1,030 |
| MW-377 | Compliance | 09/14/2021 | A4D | 1.77 | 55.2 | 100 | 1.15 | 7.1 | 38.0 | 580 |
| MW-377 | Compliance | 03/28/2022 | A5 | 1.69 | 56.0 | 92.0 | 1.21 | 7.2 | 39.0 | 642 |
| MW-377 | Compliance | 09/30/2022 | A5D | 1.71 | 57.3 | 99.0 | 1.11 | 7.1 | 39.0 | 622 |
| MW-383 | Compliance | 09/13/2021 | A4D | 1.34 | 17.1 | 45.0 | 0.700 | 7.6 | 168 | 864 |
| MW-383 | Compliance | 03/29/2022 | A5 | 1.56 | 17.9 | 50.0 | 0.830 | 7.5 | 159 | 896 |
| MW-383 | Compliance | 09/30/2022 | A5D | 1.52 | 19.4 | 42.0 | 0.660 | 7.6 | 169 | 906 |
| MW-384 | Compliance | 09/13/2021 | A4D | 1.54 | 20.0 | 501 | 3.82 | 8.0 | 40.0 | 1,440 |
| MW-384 | Compliance | 03/29/2022 | A5 | 2.26 | 6.83 | 466 | 4.43 | 8.0 | 34.0 | 1,520 |
| MW-384 | Compliance | 09/30/2022 | A5D | 1.91 | 19.4 | 531 | 4.12 | 8.1 | 35.0 | 1,600 |

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Well ID | Well Type | Date | Event ID | Boron, total (mg/L) | Calcium, total (mg/L) | Chloride, total (mg/L) | Fluoride, total (mg/L) | pH (field) (SU) | Sulfate, total (mg/L) | Total Dissolved Solids (mg/L) |
|---------|------------|------------|----------|---------------------|-----------------------|------------------------|------------------------|-----------------|-----------------------|-------------------------------|
| MW-390 | Compliance | 09/15/2021 | A4D | 0.308 | 90.2 | 62.0 | 1.26 | 7.1 | 152 | 682 |
| MW-390 | Compliance | 03/29/2022 | A5 | 0.546 | 88.1 | 80.0 | 0.890 | 7.1 | 142 | 742 |
| MW-390 | Compliance | 09/30/2022 | A5D | 0.384 | 100 | 115 | 1.13 | 7.2 | 180 | 826 |
| MW-391 | Compliance | 09/14/2021 | A4D | 2.84 | 8.95 | 116 | 3.10 | 7.7 | 668 | 1,620 |
| MW-391 | Compliance | 03/29/2022 | A5 | 3.24 | 6.63 | 110 | 3.66 | 7.9 | 499 | 1,510 |
| MW-391 | Compliance | 09/30/2022 | A5D | 3.25 | 8.06 | 147 | 3.55 | 8.2 | 426 | 1,660 |

Notes:

Exceedance of Background

mg/L = milligrams per liter
 SU = Standard Units

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate. Lab reports may or may not report both the limit of detection and the limit of quantitation. Limits are provided in the electronic data deliverable. As such, the U-flagged result value provided in this table may not match the result value provided in the lab report.
 J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Well ID | Well Type | Date | 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) |
|---------|------------|------------|------------------------|-----------------------|----------------------|-------------------------|-----------------------|------------------------|----------------------|------------------------|--------------------|-----------------------|-----------------------|--------------------------|--------------------------|------------------------|------------------------|
| MW-304 | Background | 09/14/2021 | 0.001 U | 0.00210 | 0.0189 | -- | -- | 0.0015 U | 0.001 U | 1.60 | 0.001 U | 0.0777 | -- | 0.00210 | 0.744 | 0.001 U | 0.002 U |
| MW-304 | Background | 03/28/2022 | 0.001 U | 0.00210 | 0.0194 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 1.76 | 0.001 U | 0.0829 | 0.0002 U | 0.0015 U | 0.968 B | 0.001 U | 0.002 U |
| MW-304 | Background | 09/29/2022 | 0.0004 U | 0.00270 J | 0.0183 J | -- | -- | 0.0013 J | 0.0001 U | 1.70 | 0.0006 U | 0.0861 J | -- | 0.0008 J | 0.616 | 0.0006 U | 0.001 U |
| MW-306 | Background | 09/16/2021 | 0.001 U | 0.001 U | 1.04 | -- | -- | 0.0271 | 0.00350 | 0.130 | 0.00520 | 0.0584 | -- | 0.00860 | 8.20 | 0.001 U | 0.002 U |
| MW-306 | Background | 03/29/2022 | 0.001 U | 0.00230 | 0.0157 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 0.550 | 0.001 U | 0.0122 | 0.0002 U | 0.0278 | 0.566 B | 0.001 U | 0.002 U |
| MW-306 | Background | 09/29/2022 | 0.0004 U | 0.00140 | 0.0121 | -- | -- | 0.0007 U | 0.0001 U | 0.490 | 0.0006 U | 0.0113 | -- | 0.0224 | 0.241 | 0.0006 U | 0.001 U |
| MW-350 | Compliance | 09/14/2021 | 0.00260 | 0.001 U | 0.179 | -- | -- | 0.00210 | 0.001 U | 0.150 | 0.00270 | 0.0834 | -- | 0.00430 | 0.940 | 0.001 U | 0.002 U |
| MW-350 | Compliance | 03/28/2022 | 0.00110 | 0.00100 | 0.329 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 0.220 | 0.00100 | 0.0806 | 0.0002 U | 0.00560 | 1.71 JB | 0.001 U | 0.002 U |
| MW-350 | Compliance | 09/29/2022 | 0.0009 J | 0.0008 J | 0.296 | -- | -- | 0.0011 J | 0.0002 J | 0.170 | 0.00160 | 0.0830 | -- | 0.00360 | 1.43 | 0.0006 U | 0.001 U |
| MW-366 | Compliance | 09/15/2021 | 0.001 U | 0.001 U | 0.0507 | -- | -- | 0.0015 U | 0.001 U | 0.460 | 0.001 U | 0.0146 | -- | 0.00390 | 0.478 | 0.001 U | 0.002 U |
| MW-366 | Compliance | 03/29/2022 | 0.001 U | 0.001 U | 0.0753 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 0.580 | 0.001 U | 0.0293 | 0.0002 U | 0.00470 | 0.567 JB | 0.001 U | 0.002 U |
| MW-366 | Compliance | 09/30/2022 | 0.0004 U | 0.0005 J | 0.0607 | -- | -- | 0.0007 U | 0.0002 J | 0.360 | 0.0006 U | 0.0177 | -- | 0.00490 | 0.485 | 0.0006 U | 0.001 U |
| MW-375 | Compliance | 09/14/2021 | 0.001 U | 0.00170 | 0.0230 | -- | -- | 0.0015 U | 0.001 U | 2.38 | 0.001 U | 0.0765 | -- | 0.0241 | 0.132 | 0.001 U | 0.002 U |
| MW-375 | Compliance | 03/28/2022 | 0.00100 | 0.00130 | 0.0226 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 2.54 | 0.001 U | 0.0843 | 0.0002 U | 0.0252 | 0.248 | 0.001 U | 0.002 U |
| MW-375 | Compliance | 09/30/2022 | 0.0009 J | 0.00190 | 0.0312 | -- | -- | 0.0007 U | 0.0001 U | 2.35 | 0.0006 U | 0.0958 | -- | 0.0341 | 0.389 | 0.0006 U | 0.001 U |
| MW-377 | Compliance | 09/14/2021 | 0.001 U | 0.001 U | 0.0630 | -- | -- | 0.0015 U | 0.001 U | 1.15 | 0.001 U | 0.0647 | -- | 0.0015 U | 0.715 | 0.001 U | 0.002 U |
| MW-377 | Compliance | 03/28/2022 | 0.001 U | 0.001 U | 0.0554 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 1.21 | 0.001 U | 0.0835 | 0.0002 U | 0.0015 U | 0.702 | 0.001 U | 0.002 U |
| MW-377 | Compliance | 09/30/2022 | 0.0004 U | 0.0004 U | 0.0589 | -- | -- | 0.0007 U | 0.0001 U | 1.11 | 0.0006 U | 0.0621 | -- | 0.0006 U | 0.250 | 0.0006 U | 0.001 U |
| MW-383 | Compliance | 09/13/2021 | 0.001 U | 0.001 U | 0.0443 | -- | -- | 0.0015 U | 0.001 U | 0.700 | 0.001 U | 0.0389 | -- | 0.00880 | 0.968 | 0.001 U | 0.002 U |
| MW-383 | Compliance | 03/29/2022 | 0.001 U | 0.001 U | 0.0617 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 0.830 | 0.001 U | 0.0464 | 0.0002 U | 0.0202 | 0.488 | 0.001 U | 0.002 U |
| MW-383 | Compliance | 09/30/2022 | 0.0004 U | 0.0006 J | 0.0481 | -- | -- | 0.0007 U | 0.0001 U | 0.660 | 0.0006 U | 0.0411 | -- | 0.0132 | 0.437 | 0.0006 U | 0.001 U |
| MW-384 | Compliance | 09/13/2021 | 0.001 U | 0.001 U | 0.0521 | -- | -- | 0.0015 U | 0.001 U | 3.82 | 0.001 U | 0.0488 | -- | 0.0450 | 1.15 | 0.001 U | 0.002 U |
| MW-384 | Compliance | 03/29/2022 | 0.001 U | 0.001 U | 0.0285 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 4.43 | 0.001 U | 0.0705 | 0.0002 U | 0.0323 | 0.254 | 0.001 U | 0.002 U |
| MW-384 | Compliance | 09/30/2022 | 0.0004 U | 0.0004 J | 0.0666 | -- | -- | 0.00150 J | 0.0003 J | 4.12 | 0.0006 U | 0.0594 | -- | 0.0352 | 0.266 | 0.0006 U | 0.001 U |
| MW-390 | Compliance | 09/15/2021 | 0.001 U | 0.00150 | 0.0695 | -- | -- | 0.0015 U | 0.001 U | 1.26 | 0.001 U | 0.0163 | -- | 0.00330 | 1.08 | 0.001 U | 0.002 U |
| MW-390 | Compliance | 03/29/2022 | 0.001 U | 0.00180 | 0.0552 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 0.890 | 0.001 U | 0.0290 | 0.0002 U | 0.00490 | 1.20 J | 0.001 U | 0.002 U |
| MW-390 | Compliance | 09/30/2022 | 0.0004 U | 0.00170 | 0.105 | -- | -- | 0.0007 U | 0.0002 J | 1.13 | 0.0006 U | 0.0276 | -- | 0.00510 | 0.827 | 0.0006 U | 0.001 U |
| MW-391 | Compliance | 09/14/2021 | 0.00190 | 0.00340 | 0.0165 | -- | -- | 0.0015 U | 0.001 U | 3.10 | 0.001 U | 0.0707 | -- | 0.0298 | 1.32 | 0.00120 | 0.002 U |
| MW-391 | Compliance | 03/29/2022 | 0.00240 | 0.00550 | 0.0135 | 0.001 U | 0.001 U | 0.0015 U | 0.001 U | 3.66 | 0.001 U | 0.0892 | 0.0002 U | 0.0461 | 0.889 | 0.00130 | 0.002 U |

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Well ID | Well Type | Date | 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) |
|---------|------------|------------|------------------------|-----------------------|----------------------|-------------------------|-----------------------|------------------------|----------------------|------------------------|--------------------|-----------------------|-----------------------|--------------------------|--------------------------|------------------------|------------------------|
| MW-391 | Compliance | 09/30/2022 | 0.00220 | 0.00510 | 0.0222 | -- | -- | 0.00190 | 0.0007 J | 3.55 | 0.0006 U | 0.120 | -- | 0.0594 | 1.01 | 0.00200 | 0.001 U |

Notes:

mg/L = milligrams per liter

pCi/L = picoCuries per liter

-- = not analyzed

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate. Lab reports may or may not report both the limit of detection and the limit of quantitation. Limits are provided in the electronic data deliverable. As such, the U-flagged result value provided in this table may not match the result value provided in the lab report.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

B = The analyte was found in sample and in associated method blank.

JB = The result is an estimated quantity, and the analyte was found in both the sample and in the associated method blank.

TABLE 4
STATISTICAL BACKGROUND VALUES
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Parameter | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Background Value (LPL/UPL) |
|-------------------------------|-------------------------|--------------|---------------------|-------------------------|--|
| Boron (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric UPL | 1.84 |
| Calcium (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Parametric UPL | 69.0 |
| Chloride (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric UPL | 153 |
| Fluoride (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric UPL | 1.88 |
| pH (field) (SU) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric LPL/UPL | 7.4/11.5 |
| Sulfate (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric UPL | 208 |
| Total Dissolved Solids (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric UPL | 1,420 |

Notes:

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

TABLE 5
GROUNDWATER PROTECTION STANDARDS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, 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) | 06/27/2018 - 03/26/2020 | 10 | 100 | All ND - Last Reporting Limit | 0.001 | 0.006 | 0.006 | MCL/HBL |
| Arsenic (mg/L) | 06/27/2018 - 03/26/2020 | 10 | 0 | Parametric UTL | 0.00361 | 0.010 | 0.010 | MCL/HBL |
| Barium (mg/L) | 06/27/2018 - 03/26/2020 | 10 | 0 | Parametric UTL | 0.0275 | 2 | 2 | MCL/HBL |
| Beryllium (mg/L) | 06/27/2018 - 03/26/2020 | 8 | 100 | All ND - Last Reporting Limit | 0.001 | 0.004 | 0.004 | MCL/HBL |
| Cadmium (mg/L) | 06/27/2018 - 03/26/2020 | 8 | 100 | All ND - Last Reporting Limit | 0.001 | 0.005 | 0.005 | MCL/HBL |
| Chromium (mg/L) | 06/27/2018 - 03/26/2020 | 10 | 100 | All ND - Last Reporting Limit | 0.002 | 0.1 | 0.1 | MCL/HBL |
| Cobalt (mg/L) | 06/27/2018 - 03/26/2020 | 8 | 100 | All ND - Last Reporting Limit | 0.001 | 0.006 | 0.006 | MCL/HBL |
| Fluoride (mg/L) | 11/28/2017 - 03/26/2020 | 12 | 0 | Non-parametric UTL | 1.88 | 4.0 | 4.0 | MCL/HBL |
| Lead (mg/L) | 06/27/2018 - 03/26/2020 | 8 | 100 | All ND - Last Reporting Limit | 0.001 | 0.015 | 0.015 | MCL/HBL |
| Lithium (mg/L) | 06/27/2018 - 03/26/2020 | 10 | 0 | Non-parametric UTL | 0.0958 | 0.04 | 0.0958 | Background |
| Mercury (mg/L) | 06/27/2018 - 03/26/2020 | 8 | 100 | All ND - Last Reporting Limit | 0.0002 | 0.002 | 0.002 | MCL/HBL |
| Molybdenum (mg/L) | 06/27/2018 - 03/26/2020 | 10 | 0 | Non-parametric UTL | 0.0299 | 0.1 | 0.1 | MCL/HBL |
| Radium 226 + Radium 228 (pCi/L) | 06/27/2018 - 03/26/2020 | 10 | 0 | Parametric UTL | 1.61 | 5 | 5 | MCL/HBL |
| Selenium (mg/L) | 06/27/2018 - 03/26/2020 | 10 | 100 | All ND - Last Reporting Limit | 0.001 | 0.05 | 0.05 | MCL/HBL |
| Thallium (mg/L) | 06/27/2018 - 03/26/2020 | 8 | 100 | All ND - Last Reporting Limit | 0.002 | 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

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|-------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-350 | Antimony, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 0 | CI around mean | 0.000862 | 0.006 | MCL/HBL |
| MW-350 | Antimony, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 0 | CI around mean | 0.000647 | 0.006 | MCL/HBL |
| MW-350 | Antimony, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 17 | CI around mean | 0.000790 | 0.006 | MCL/HBL |
| MW-350 | Arsenic, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL |
| MW-350 | Arsenic, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 80 | Most recent sample | 0.001 | 0.010 | MCL/HBL |
| MW-350 | Arsenic, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 83 | Most recent sample | 0.0008 | 0.010 | MCL/HBL |
| MW-350 | Barium, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 0 | CI around mean | 0.105 | 2 | MCL/HBL |
| MW-350 | Barium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 0 | CI around mean | 0.0995 | 2 | MCL/HBL |
| MW-350 | Barium, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 0 | CI around mean | 0.133 | 2 | MCL/HBL |
| MW-350 | Beryllium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 4 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |
| MW-350 | Cadmium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 4 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-350 | Chromium, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 75 | CI around median | 0.00210 | 0.1 | MCL/HBL |
| MW-350 | Chromium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 80 | CI around median | 0.00150 | 0.1 | MCL/HBL |
| MW-350 | Chromium, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 83 | CI around median | 0.00110 | 0.1 | MCL/HBL |
| MW-350 | Cobalt, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-350 | Cobalt, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-350 | Cobalt, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 100 | All ND - Last | 0.0002 | 0.006 | MCL/HBL |
| MW-350 | Fluoride, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 0 | CI around mean | 0.112 | 4.0 | MCL/HBL |
| MW-350 | Fluoride, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 0 | CI around mean | 0.112 | 4.0 | MCL/HBL |
| MW-350 | Fluoride, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 0 | CI around mean | 0.127 | 4.0 | MCL/HBL |
| MW-350 | Lead, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 50 | CI around geomean | 0.000438 | 0.015 | MCL/HBL |
| MW-350 | Lead, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 40 | CI around median | 0.00100 | 0.015 | MCL/HBL |
| MW-350 | Lead, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 33 | CI around geomean | 0.000762 | 0.015 | MCL/HBL |
| MW-350 | Lithium, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 5 | 0 | Future median | 0.0834 | 0.0958 | Background |
| MW-350 | Lithium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 6 | 0 | Future median | 0.0819 | 0.0958 | Background |
| MW-350 | Lithium, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 7 | 0 | CI around mean | 0.0774 | 0.0958 | Background |
| MW-350 | Mercury, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 4 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-350 | Molybdenum, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 0 | CI around mean | -0.00142 | 0.1 | MCL/HBL |
| MW-350 | Molybdenum, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 0 | CI around mean | 0.000547 | 0.1 | MCL/HBL |
| MW-350 | Molybdenum, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 0 | CI around mean | 0.00140 | 0.1 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|-------|-------------|
| MW-350 | Radium 226 + Radium 228, total | pCi/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 0 | CI around mean | 0.774 | 5 | MCL/HBL |
| MW-350 | Radium 226 + Radium 228, total | pCi/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 0 | CI around geomean | 0.631 | 5 | MCL/HBL |
| MW-350 | Radium 226 + Radium 228, total | pCi/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 0 | CI around mean | 0.636 | 5 | MCL/HBL |
| MW-350 | Selenium, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 100 | All ND - Last | 0.001 | 0.05 | MCL/HBL |
| MW-350 | Selenium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 100 | All ND - Last | 0.001 | 0.05 | MCL/HBL |
| MW-350 | Selenium, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 100 | All ND - Last | 0.0006 | 0.05 | MCL/HBL |
| MW-350 | Thallium, total | mg/L | A4D | 03/26/2020 - 09/14/2021 | 4 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-350 | Thallium, total | mg/L | A5 | 03/26/2020 - 03/28/2022 | 5 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-350 | Thallium, total | mg/L | A5D | 03/26/2020 - 09/29/2022 | 6 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |
| MW-366 | Antimony, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-366 | Antimony, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-366 | Antimony, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0004 | 0.006 | MCL/HBL |
| MW-366 | Arsenic, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 94 | CI around median | 0.00100 | 0.010 | MCL/HBL |
| MW-366 | Arsenic, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 94 | CI around median | 0.00100 | 0.010 | MCL/HBL |
| MW-366 | Arsenic, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 94 | CI around median | 0.00100 | 0.010 | MCL/HBL |
| MW-366 | Barium, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 0 | CB around linear reg | 0.0122 | 2 | MCL/HBL |
| MW-366 | Barium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 0 | CB around linear reg | 0.0152 | 2 | MCL/HBL |
| MW-366 | Barium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0181 | 2 | MCL/HBL |
| MW-366 | Beryllium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |
| MW-366 | Cadmium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-366 | Chromium, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-366 | Chromium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-366 | Chromium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0007 | 0.1 | MCL/HBL |
| MW-366 | Cobalt, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 14 | 79 | CI around median | 0.00100 | 0.006 | MCL/HBL |
| MW-366 | Cobalt, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 15 | 80 | CI around median | 0.00100 | 0.006 | MCL/HBL |
| MW-366 | Cobalt, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 16 | 81 | CI around median | 0.00100 | 0.006 | MCL/HBL |
| MW-366 | Fluoride, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 17 | 0 | CB around linear reg | 0.0992 | 4.0 | MCL/HBL |
| MW-366 | Fluoride, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 18 | 0 | CB around linear reg | 0.100 | 4.0 | MCL/HBL |
| MW-366 | Fluoride, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 19 | 0 | CB around linear reg | 0.0781 | 4.0 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-366 | Lead, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 13 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-366 | Lead, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-366 | Lead, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.0006 | 0.015 | MCL/HBL |
| MW-366 | Lithium, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 0 | CB around linear reg | -0.00129 | 0.0958 | Background |
| MW-366 | Lithium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 0 | Future median | 0.0146 | 0.0958 | Background |
| MW-366 | Lithium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around median | 0.0121 | 0.0958 | Background |
| MW-366 | Mercury, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-366 | Molybdenum, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 0 | CI around mean | 0.00241 | 0.1 | MCL/HBL |
| MW-366 | Molybdenum, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 0 | CI around mean | 0.00255 | 0.1 | MCL/HBL |
| MW-366 | Molybdenum, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.00268 | 0.1 | MCL/HBL |
| MW-366 | Radium 226 + Radium 228, total | pCi/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 0 | CI around geomean | 0.425 | 5 | MCL/HBL |
| MW-366 | Radium 226 + Radium 228, total | pCi/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 0 | CI around geomean | 0.434 | 5 | MCL/HBL |
| MW-366 | Radium 226 + Radium 228, total | pCi/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around geomean | 0.437 | 5 | MCL/HBL |
| MW-366 | Selenium, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 16 | 94 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-366 | Selenium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 17 | 94 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-366 | Selenium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 94 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-366 | Thallium, total | mg/L | A4D | 01/20/2016 - 09/15/2021 | 13 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-366 | Thallium, total | mg/L | A5 | 01/20/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-366 | Thallium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |
| MW-375 | Antimony, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 12 | CB around T-S line | -0.000632 | 0.006 | MCL/HBL |
| MW-375 | Antimony, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 12 | CB around T-S line | -0.00116 | 0.006 | MCL/HBL |
| MW-375 | Antimony, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 17 | CB around T-S line | -0.000577 | 0.006 | MCL/HBL |
| MW-375 | Arsenic, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 0 | CI around mean | 0.00155 | 0.010 | MCL/HBL |
| MW-375 | Arsenic, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 0 | CI around mean | 0.00152 | 0.010 | MCL/HBL |
| MW-375 | Arsenic, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.00154 | 0.010 | MCL/HBL |
| MW-375 | Barium, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 0 | CI around median | 0.0239 | 2 | MCL/HBL |
| MW-375 | Barium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 0 | CI around median | 0.0238 | 2 | MCL/HBL |
| MW-375 | Barium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around geomean | 0.0243 | 2 | MCL/HBL |
| MW-375 | Beryllium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 13 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-375 | Cadmium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 13 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-375 | Chromium, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-375 | Chromium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-375 | Chromium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0007 | 0.1 | MCL/HBL |
| MW-375 | Cobalt, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 14 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-375 | Cobalt, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 15 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-375 | Cobalt, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 16 | 100 | All ND - Last | 0.0001 | 0.006 | MCL/HBL |
| MW-375 | Fluoride, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 17 | 0 | CI around mean | 2.17 | 4.0 | MCL/HBL |
| MW-375 | Fluoride, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 18 | 0 | CB around linear reg | 2.31 | 4.0 | MCL/HBL |
| MW-375 | Fluoride, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 19 | 0 | CI around mean | 2.20 | 4.0 | MCL/HBL |
| MW-375 | Lead, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 13 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-375 | Lead, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 14 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-375 | Lead, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.0006 | 0.015 | MCL/HBL |
| MW-375 | Lithium, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 0 | CB around linear reg | 0.0782 | 0.0958 | Background |
| MW-375 | Lithium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 0 | CB around linear reg | 0.0799 | 0.0958 | Background |
| MW-375 | Lithium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0842 | 0.0958 | Background |
| MW-375 | Mercury, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 13 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-375 | Molybdenum, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 0 | CI around mean | 0.0234 | 0.1 | MCL/HBL |
| MW-375 | Molybdenum, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 0 | CI around mean | 0.0235 | 0.1 | MCL/HBL |
| MW-375 | Molybdenum, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.0240 | 0.1 | MCL/HBL |
| MW-375 | Radium 226 + Radium 228, total | pCi/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 0 | CI around mean | 0.215 | 5 | MCL/HBL |
| MW-375 | Radium 226 + Radium 228, total | pCi/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 0 | CI around median | 0.132 | 5 | MCL/HBL |
| MW-375 | Radium 226 + Radium 228, total | pCi/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 0 | CI around median | 0.230 | 5 | MCL/HBL |
| MW-375 | Selenium, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 16 | 88 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-375 | Selenium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 17 | 88 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-375 | Selenium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 18 | 89 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-375 | Thallium, total | mg/L | A4D | 01/20/2016 - 09/14/2021 | 13 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-375 | Thallium, total | mg/L | A5 | 01/20/2016 - 03/28/2022 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-375 | Thallium, total | mg/L | A5D | 01/20/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|-------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-377 | Antimony, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-377 | Antimony, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-377 | Antimony, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0004 | 0.006 | MCL/HBL |
| MW-377 | Arsenic, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 75 | CB around linear reg | 0.000439 | 0.010 | MCL/HBL |
| MW-377 | Arsenic, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 76 | CB around linear reg | 0.000463 | 0.010 | MCL/HBL |
| MW-377 | Arsenic, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 78 | CB around T-S line | -0.0000677 | 0.010 | MCL/HBL |
| MW-377 | Barium, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 0 | CI around mean | 0.0609 | 2 | MCL/HBL |
| MW-377 | Barium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 0 | CI around mean | 0.0603 | 2 | MCL/HBL |
| MW-377 | Barium, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.0602 | 2 | MCL/HBL |
| MW-377 | Beryllium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 13 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |
| MW-377 | Cadmium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 13 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-377 | Chromium, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-377 | Chromium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-377 | Chromium, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-377 | Cobalt, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 14 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-377 | Cobalt, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 15 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-377 | Cobalt, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 16 | 100 | All ND - Last | 0.0001 | 0.006 | MCL/HBL |
| MW-377 | Fluoride, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 17 | 0 | CB around linear reg | 1.15 | 4.0 | MCL/HBL |
| MW-377 | Fluoride, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 18 | 0 | CB around linear reg | 1.16 | 4.0 | MCL/HBL |
| MW-377 | Fluoride, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 19 | 0 | CI around mean | 1.10 | 4.0 | MCL/HBL |
| MW-377 | Lead, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 13 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-377 | Lead, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 14 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-377 | Lead, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.0006 | 0.015 | MCL/HBL |
| MW-377 | Lithium, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 0 | CB around linear reg | 0.0600 | 0.0958 | Background |
| MW-377 | Lithium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 0 | CB around linear reg | 0.0642 | 0.0958 | Background |
| MW-377 | Lithium, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0630 | 0.0958 | Background |
| MW-377 | Mercury, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 13 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-377 | Molybdenum, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 50 | CB around linear reg | 0.000577 | 0.1 | MCL/HBL |
| MW-377 | Molybdenum, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 53 | CB around linear reg | 0.000607 | 0.1 | MCL/HBL |
| MW-377 | Molybdenum, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 56 | CB around T-S line | -0.0000888 | 0.1 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|-------|-------------|
| MW-377 | Radium 226 + Radium 228, total | pCi/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 0 | CI around mean | 0.280 | 5 | MCL/HBL |
| MW-377 | Radium 226 + Radium 228, total | pCi/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 0 | CI around mean | 0.305 | 5 | MCL/HBL |
| MW-377 | Radium 226 + Radium 228, total | pCi/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.300 | 5 | MCL/HBL |
| MW-377 | Selenium, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 16 | 100 | All ND - Last | 0.001 | 0.05 | MCL/HBL |
| MW-377 | Selenium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 17 | 100 | All ND - Last | 0.001 | 0.05 | MCL/HBL |
| MW-377 | Selenium, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0006 | 0.05 | MCL/HBL |
| MW-377 | Thallium, total | mg/L | A4D | 01/19/2016 - 09/14/2021 | 13 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-377 | Thallium, total | mg/L | A5 | 01/19/2016 - 03/28/2022 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-377 | Thallium, total | mg/L | A5D | 01/19/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |
| MW-383 | Antimony, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 81 | CB around linear reg | 0.000735 | 0.006 | MCL/HBL |
| MW-383 | Antimony, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 82 | CB around linear reg | 0.000748 | 0.006 | MCL/HBL |
| MW-383 | Antimony, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 83 | CB around T-S line | 0.000369 | 0.006 | MCL/HBL |
| MW-383 | Arsenic, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 69 | CI around median | 0.00100 | 0.010 | MCL/HBL |
| MW-383 | Arsenic, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 71 | CI around median | 0.00100 | 0.010 | MCL/HBL |
| MW-383 | Arsenic, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 72 | CI around median | 0.00100 | 0.010 | MCL/HBL |
| MW-383 | Barium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CB around linear reg | 0.0417 | 2 | MCL/HBL |
| MW-383 | Barium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CB around linear reg | 0.0442 | 2 | MCL/HBL |
| MW-383 | Barium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CB around T-S line | 0.0445 | 2 | MCL/HBL |
| MW-383 | Beryllium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |
| MW-383 | Cadmium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-383 | Chromium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-383 | Chromium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-383 | Chromium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-383 | Cobalt, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 14 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-383 | Cobalt, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 15 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-383 | Cobalt, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 16 | 100 | All ND - Last | 0.0001 | 0.006 | MCL/HBL |
| MW-383 | Fluoride, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 17 | 0 | CB around linear reg | 0.651 | 4.0 | MCL/HBL |
| MW-383 | Fluoride, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 18 | 0 | CB around linear reg | 0.659 | 4.0 | MCL/HBL |
| MW-383 | Fluoride, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 19 | 0 | CB around linear reg | 0.640 | 4.0 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-383 | Lead, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 13 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-383 | Lead, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-383 | Lead, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.0006 | 0.015 | MCL/HBL |
| MW-383 | Lithium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CB around linear reg | 0.0359 | 0.0958 | Background |
| MW-383 | Lithium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CB around linear reg | 0.0379 | 0.0958 | Background |
| MW-383 | Lithium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0383 | 0.0958 | Background |
| MW-383 | Mercury, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-383 | Molybdenum, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CB around T-S line | 0.00454 | 0.1 | MCL/HBL |
| MW-383 | Molybdenum, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CB around T-S line | 0.00420 | 0.1 | MCL/HBL |
| MW-383 | Molybdenum, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.0102 | 0.1 | MCL/HBL |
| MW-383 | Radium 226 + Radium 228, total | pCi/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CI around mean | 0.329 | 5 | MCL/HBL |
| MW-383 | Radium 226 + Radium 228, total | pCi/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CI around mean | 0.340 | 5 | MCL/HBL |
| MW-383 | Radium 226 + Radium 228, total | pCi/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.346 | 5 | MCL/HBL |
| MW-383 | Selenium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 94 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-383 | Selenium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 94 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-383 | Selenium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 94 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-383 | Thallium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 13 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-383 | Thallium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-383 | Thallium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |
| MW-384 | Antimony, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-384 | Antimony, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-384 | Antimony, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0004 | 0.006 | MCL/HBL |
| MW-384 | Arsenic, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL |
| MW-384 | Arsenic, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.001 | 0.010 | MCL/HBL |
| MW-384 | Arsenic, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0004 | 0.010 | MCL/HBL |
| MW-384 | Barium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CB around linear reg | 0.0378 | 2 | MCL/HBL |
| MW-384 | Barium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CB around linear reg | 0.0334 | 2 | MCL/HBL |
| MW-384 | Barium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0379 | 2 | MCL/HBL |
| MW-384 | Beryllium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-384 | Cadmium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-384 | Chromium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-384 | Chromium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-384 | Chromium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 94 | CB around T-S line | 0.00100 | 0.1 | MCL/HBL |
| MW-384 | Cobalt, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 14 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-384 | Cobalt, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 15 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-384 | Cobalt, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 16 | 100 | All ND - Last | 0.0003 | 0.006 | MCL/HBL |
| MW-384 | Fluoride, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 17 | 0 | CB around linear reg | 2.55 | 4.0 | MCL/HBL |
| MW-384 | Fluoride, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 18 | 0 | CB around linear reg | 2.98 | 4.0 | MCL/HBL |
| MW-384 | Fluoride, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 19 | 0 | CB around linear reg | 3.28 | 4.0 | MCL/HBL |
| MW-384 | Lead, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 13 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-384 | Lead, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-384 | Lead, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.0006 | 0.015 | MCL/HBL |
| MW-384 | Lithium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CB around linear reg | 0.0435 | 0.0958 | Background |
| MW-384 | Lithium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CB around linear reg | 0.0473 | 0.0958 | Background |
| MW-384 | Lithium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0500 | 0.0958 | Background |
| MW-384 | Mercury, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-384 | Molybdenum, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CB around linear reg | 0.0316 | 0.1 | MCL/HBL |
| MW-384 | Molybdenum, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CB around linear reg | 0.0306 | 0.1 | MCL/HBL |
| MW-384 | Molybdenum, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0309 | 0.1 | MCL/HBL |
| MW-384 | Radium 226 + Radium 228, total | pCi/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 0 | CI around geomean | 0.347 | 5 | MCL/HBL |
| MW-384 | Radium 226 + Radium 228, total | pCi/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 0 | CI around geomean | 0.337 | 5 | MCL/HBL |
| MW-384 | Radium 226 + Radium 228, total | pCi/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 0 | CI around geomean | 0.330 | 5 | MCL/HBL |
| MW-384 | Selenium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 16 | 100 | All ND - Last | 0.001 | 0.05 | MCL/HBL |
| MW-384 | Selenium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.001 | 0.05 | MCL/HBL |
| MW-384 | Selenium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0006 | 0.05 | MCL/HBL |
| MW-384 | Thallium, total | mg/L | A4D | 01/21/2016 - 09/13/2021 | 13 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-384 | Thallium, total | mg/L | A5 | 01/21/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-384 | Thallium, total | mg/L | A5D | 01/21/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|-------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-390 | Antimony, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 94 | CI around median | 0.00100 | 0.006 | MCL/HBL |
| MW-390 | Antimony, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 94 | CI around median | 0.00100 | 0.006 | MCL/HBL |
| MW-390 | Antimony, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 94 | CI around median | 0.00100 | 0.006 | MCL/HBL |
| MW-390 | Arsenic, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 6 | CI around mean | 0.00129 | 0.010 | MCL/HBL |
| MW-390 | Arsenic, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 6 | CI around mean | 0.00132 | 0.010 | MCL/HBL |
| MW-390 | Arsenic, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 6 | CI around mean | 0.00135 | 0.010 | MCL/HBL |
| MW-390 | Barium, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 0 | CB around linear reg | 0.0705 | 2 | MCL/HBL |
| MW-390 | Barium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 0 | CI around mean | 0.0422 | 2 | MCL/HBL |
| MW-390 | Barium, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 0 | CB around linear reg | 0.0698 | 2 | MCL/HBL |
| MW-390 | Beryllium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |
| MW-390 | Cadmium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-390 | Chromium, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-390 | Chromium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-390 | Chromium, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 100 | All ND - Last | 0.0007 | 0.1 | MCL/HBL |
| MW-390 | Cobalt, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 14 | 64 | CB around linear reg | 0.000226 | 0.006 | MCL/HBL |
| MW-390 | Cobalt, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 15 | 67 | CB around linear reg | 0.000283 | 0.006 | MCL/HBL |
| MW-390 | Cobalt, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 16 | 69 | CB around T-S line | -0.000723 | 0.006 | MCL/HBL |
| MW-390 | Fluoride, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 17 | 0 | CI around mean | 0.776 | 4.0 | MCL/HBL |
| MW-390 | Fluoride, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 18 | 0 | CI around mean | 0.783 | 4.0 | MCL/HBL |
| MW-390 | Fluoride, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 19 | 0 | CI around mean | 0.803 | 4.0 | MCL/HBL |
| MW-390 | Lead, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 13 | 92 | CI around median | 0.00100 | 0.015 | MCL/HBL |
| MW-390 | Lead, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 14 | 93 | CI around median | 0.00100 | 0.015 | MCL/HBL |
| MW-390 | Lead, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 15 | 93 | CI around median | 0.00100 | 0.015 | MCL/HBL |
| MW-390 | Lithium, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 0 | Future median | 0.0174 | 0.0958 | Background |
| MW-390 | Lithium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 0 | Future median | 0.0189 | 0.0958 | Background |
| MW-390 | Lithium, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.0210 | 0.0958 | Background |
| MW-390 | Mercury, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 13 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-390 | Molybdenum, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 0 | CI around geomean | 0.00289 | 0.1 | MCL/HBL |
| MW-390 | Molybdenum, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 0 | CI around geomean | 0.00298 | 0.1 | MCL/HBL |
| MW-390 | Molybdenum, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 0 | CI around geomean | 0.00308 | 0.1 | MCL/HBL |

TABLE 6
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2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BALDWIN POWER PLANT
605 - FLY ASH POND SYSTEM
BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|-------|-------------|
| MW-390 | Radium 226 + Radium 228, total | pCi/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 0 | CI around mean | 0.589 | 5 | MCL/HBL |
| MW-390 | Radium 226 + Radium 228, total | pCi/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 0 | CI around mean | 0.622 | 5 | MCL/HBL |
| MW-390 | Radium 226 + Radium 228, total | pCi/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 0 | CI around mean | 0.636 | 5 | MCL/HBL |
| MW-390 | Selenium, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 16 | 88 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-390 | Selenium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 17 | 88 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-390 | Selenium, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 18 | 89 | CI around median | 0.00100 | 0.05 | MCL/HBL |
| MW-390 | Thallium, total | mg/L | A4D | 03/22/2016 - 09/15/2021 | 13 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-390 | Thallium, total | mg/L | A5 | 03/22/2016 - 03/29/2022 | 14 | 100 | All ND - Last | 0.002 | 0.002 | MCL/HBL |
| MW-390 | Thallium, total | mg/L | A5D | 03/22/2016 - 09/30/2022 | 15 | 100 | All ND - Last | 0.001 | 0.002 | MCL/HBL |
| MW-391 | Antimony, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CI around mean | 0.00143 | 0.006 | MCL/HBL |
| MW-391 | Antimony, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CI around mean | 0.00145 | 0.006 | MCL/HBL |
| MW-391 | Antimony, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CI around mean | 0.00149 | 0.006 | MCL/HBL |
| MW-391 | Arsenic, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CI around geomean | 0.00129 | 0.010 | MCL/HBL |
| MW-391 | Arsenic, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CI around geomean | 0.00134 | 0.010 | MCL/HBL |
| MW-391 | Arsenic, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CB around linear reg | 0.00279 | 0.010 | MCL/HBL |
| MW-391 | Barium, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CI around mean | 0.0233 | 2 | MCL/HBL |
| MW-391 | Barium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CB around linear reg | 0.00432 | 2 | MCL/HBL |
| MW-391 | Barium, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CB around linear reg | 0.00497 | 2 | MCL/HBL |
| MW-391 | Beryllium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 8 | 100 | All ND - Last | 0.001 | 0.004 | MCL/HBL |
| MW-391 | Cadmium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 8 | 100 | All ND - Last | 0.001 | 0.005 | MCL/HBL |
| MW-391 | Chromium, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-391 | Chromium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 100 | All ND - Last | 0.0015 | 0.1 | MCL/HBL |
| MW-391 | Chromium, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 92 | CB around T-S line | 0.00150 | 0.1 | MCL/HBL |
| MW-391 | Cobalt, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 9 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-391 | Cobalt, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 10 | 100 | All ND - Last | 0.001 | 0.006 | MCL/HBL |
| MW-391 | Cobalt, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 11 | 100 | All ND - Last | 0.0007 | 0.006 | MCL/HBL |
| MW-391 | Fluoride, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CI around mean | 2.26 | 4.0 | MCL/HBL |
| MW-391 | Fluoride, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CB around linear reg | 2.41 | 4.0 | MCL/HBL |
| MW-391 | Fluoride, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CB around linear reg | 2.64 | 4.0 | MCL/HBL |

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
 2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 BALDWIN POWER PLANT
 605 - FLY ASH POND SYSTEM
 BALDWIN, IL

| Sample Location | Constituent | Result Unit | Event | Date Range | Sample Count | Percent Non-Detects | Statistical Calculation | Statistical Result | GWPS | GWPS Source |
|-----------------|--------------------------------|-------------|-------|-------------------------|--------------|---------------------|-------------------------|--------------------|--------|-------------|
| MW-391 | Lead, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 8 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-391 | Lead, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 9 | 100 | All ND - Last | 0.001 | 0.015 | MCL/HBL |
| MW-391 | Lead, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 10 | 100 | All ND - Last | 0.0006 | 0.015 | MCL/HBL |
| MW-391 | Lithium, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 12 | 0 | Future median | 0.0707 | 0.0958 | Background |
| MW-391 | Lithium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 13 | 0 | Future median | 0.0735 | 0.0958 | Background |
| MW-391 | Lithium, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 14 | 0 | CI around mean | 0.0660 | 0.0958 | Background |
| MW-391 | Mercury, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 8 | 100 | All ND - Last | 0.0002 | 0.002 | MCL/HBL |
| MW-391 | Molybdenum, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CB around linear reg | -0.00541 | 0.1 | MCL/HBL |
| MW-391 | Molybdenum, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CI around geomean | 0.0317 | 0.1 | MCL/HBL |
| MW-391 | Molybdenum, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CI around mean | 0.0329 | 0.1 | MCL/HBL |
| MW-391 | Radium 226 + Radium 228, total | pCi/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CI around mean | 0.584 | 5 | MCL/HBL |
| MW-391 | Radium 226 + Radium 228, total | pCi/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CI around mean | 0.615 | 5 | MCL/HBL |
| MW-391 | Radium 226 + Radium 228, total | pCi/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CI around mean | 0.650 | 5 | MCL/HBL |
| MW-391 | Selenium, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 11 | 0 | CB around linear reg | -0.00826 | 0.05 | MCL/HBL |
| MW-391 | Selenium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 12 | 0 | CB around linear reg | -0.00846 | 0.05 | MCL/HBL |
| MW-391 | Selenium, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 13 | 0 | CB around linear reg | -0.00831 | 0.05 | MCL/HBL |
| MW-391 | Thallium, total | mg/L | A4D | 12/22/2016 - 09/14/2021 | 9 | 89 | CI around mean | 0.00116 | 0.002 | MCL/HBL |
| MW-391 | Thallium, total | mg/L | A5 | 12/22/2016 - 03/29/2022 | 10 | 90 | CI around median | 0.00100 | 0.002 | MCL/HBL |
| MW-391 | Thallium, total | mg/L | A5D | 12/22/2016 - 09/30/2022 | 11 | 91 | CI around median | 0.00100 | 0.002 | MCL/HBL |

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

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 linear reg = Confidence band around linear regression

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

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

Future median = Median of the three most recent samples

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

Background = background concentration

FIGURES

PROJECT: 169000XXXX | DATED: 1/6/2022 | DESIGNER: galarrmc
Y:\Mapping\Projects\22285\MXD\2021_AnnualGWM_CAR\Baldwin\FAPS_605\Figure 1 BAL FAPS 605 MW Location Map.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- CAPPED AREA
- PROPERTY BOUNDARY



MONITORING WELL LOCATION MAP

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

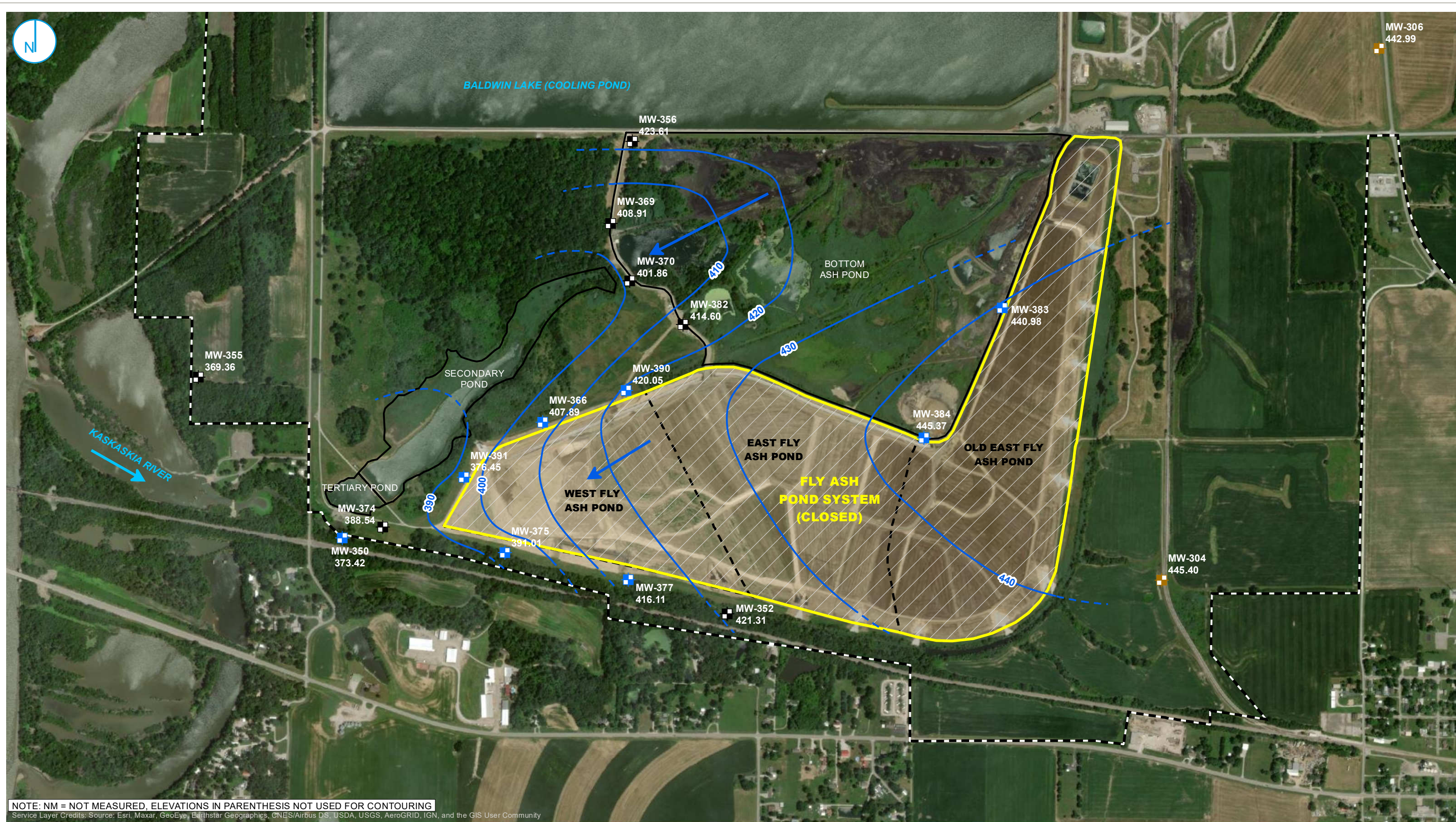
FLY ASH POND SYSTEM
BALDWIN POWER PLANT
BALDWIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 3/14/2022 | DESIGNER: galarmmc
 Y:\Mapping\Projects\22\285\IMXD\CW_Contours\Round_2021\Baldwin\FAPS_605\BAL_FAPS_605\BAL_FAPS_605 GWE_Contours_D9M4D_20210913.mxd



NOTE: NM = NOT MEASURED, ELEVATIONS IN PARENTHESIS NOT USED FOR CONTOURING
 Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (10-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PART 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- PROPERTY BOUNDARY
- CAPPED AREA



**POTENTIOMETRIC SURFACE MAP
 SEPTEMBER 13, 2021**

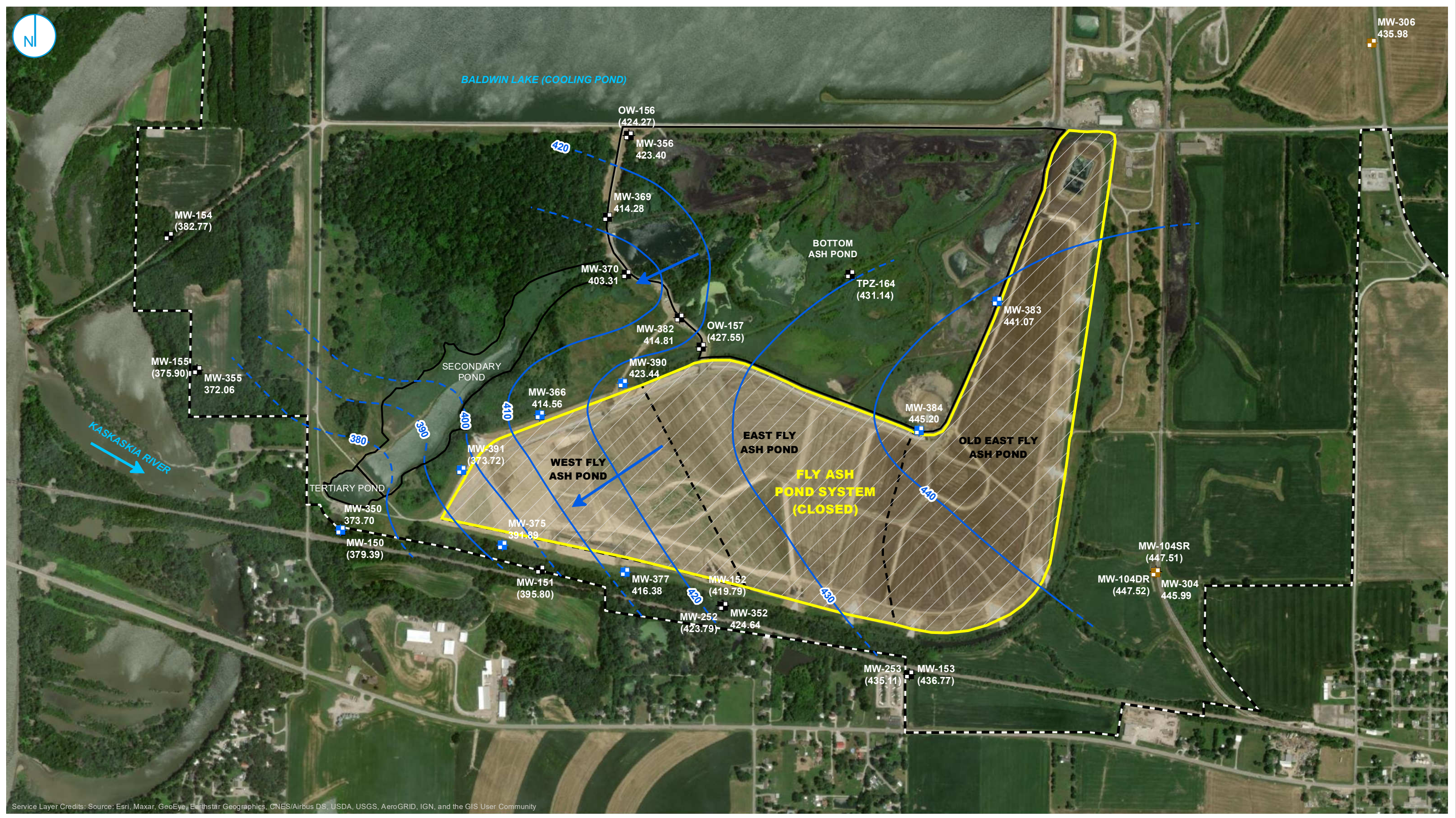
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 FLY ASH POND SYSTEM
 BALDWIN POWER PLANT
 BALDWIN, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



PROJECT: 16900XXXXX | DATED: 10/4/2022 | DESIGNER: galammc
 Y:\Mapping\Projects\222285\MXD\GW_Contours\Round_2022\Baldwin\FAPS_605\BAL_FAPS_605 Pot Surface 20220328.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (10-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PART 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- CAPPED AREA
- 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).



**POTENTIOMETRIC SURFACE MAP
 MARCH 28, 2022**

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 FLY ASH POND SYSTEM
 BALDWIN POWER PLANT
 BALDWIN, ILLINOIS

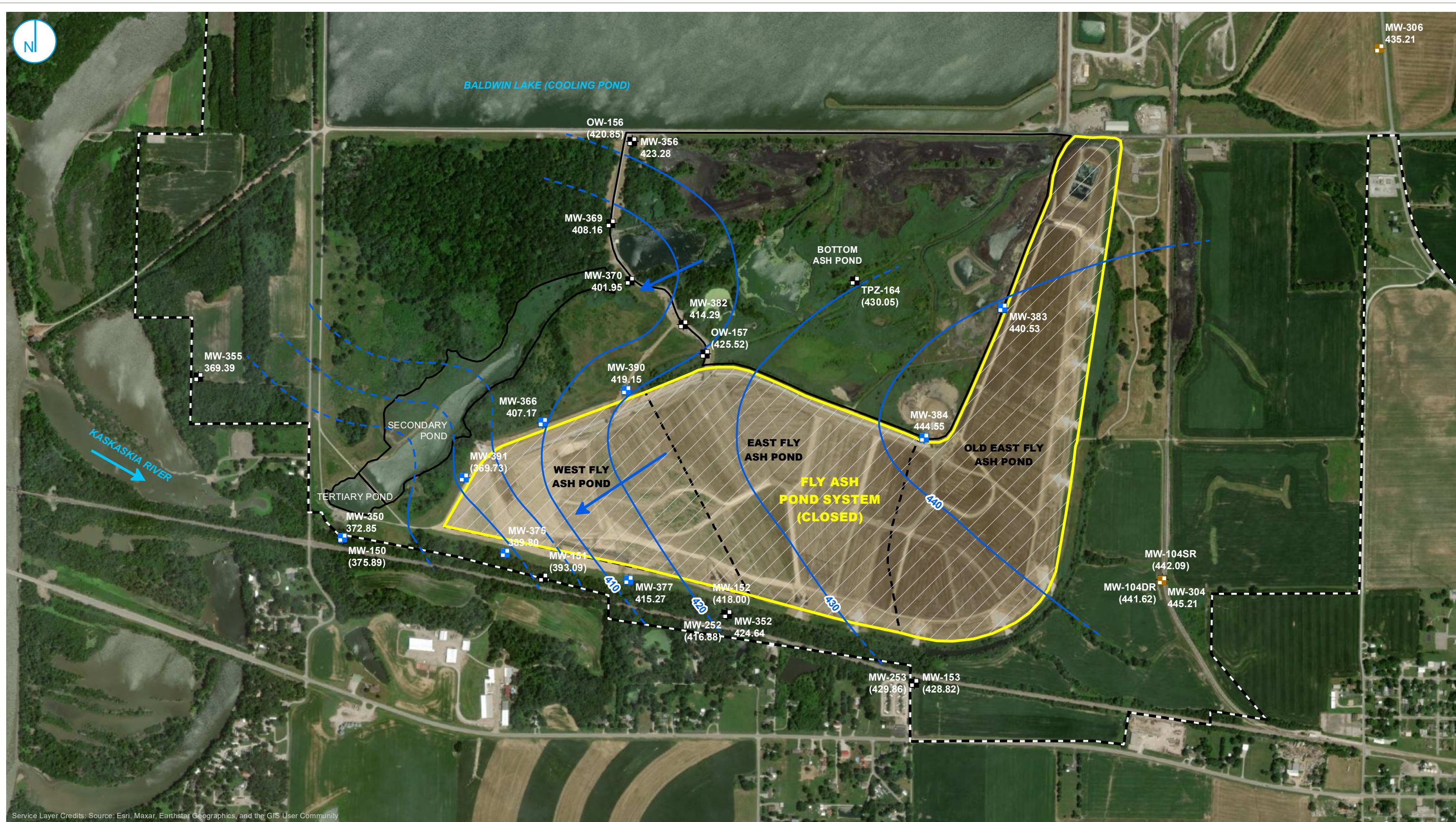
FIGURE 3

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

PROJECT: 16900XXXXX | DATED: 12/19/2022 | DESIGNER: gpalarmc
 Y:\Mapping\Projects\222285\MXD\GW_Contours\Round_2022\Baldwin\FAPS_605\BAL_FAPS_605 Pot Surface 20220929.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (10-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- PART 257 REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- CAPPED AREA
- 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).



**POTENTIOMETRIC SURFACE MAP
 SEPTEMBER 29, 2022**

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 FLY ASH POND SYSTEM
 BALDWIN POWER PLANT
 BALDWIN, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



APPENDICES

**APPENDIX A
LABORATORY REPORTS**

February 10, 2022

Brian Voelker
Vistra Energy
1500 Eastport Plaza Drive
Collinsville, IL 62234
TEL: (618) 343-7824
FAX:



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

RE: Baldwin Groundwater Q3 2021

WorkOrder: 21081645

Dear Brian Voelker:

TEKLAB, INC received 31 samples on 9/16/2021 1:50:00 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
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

This reporting package includes the following:

| | |
|-------------------------|----------|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 20 |
| Dates Report | 21 |
| Quality Control Results | 28 |
| Receiving Check List | 53 |
| Chain of Custody | Appended |

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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)

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



Case Narrative

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

Cooler Receipt Temp: 3.0 °C

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

BA_601_TPZ-164_Source Water was not collected; the location was not accessible. 154 went dry before sampling was completed. Nitrate and TDS (total) could not be analyzed. EAH 9/17/21

Due to lab error, all 154 analyses will be reported from 9/21/21 collection (WO# 21091241). EAH 9/22/21

This report was revised on February 10, 2022 per Ramboll/Eric Bauer's request. The reason for the revision is to update static elevation data for 304, 304 DUP, and 306. Please replace report dated October 13, 2021 with this report. EAH 2/10/22

This report contains CCR 605 data. EAH 2/10/22

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

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Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|-----------|------|---------|-------|-----------|--------------|
| Illinois | IEPA | 100226 | NELAP | 1/31/2023 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002 | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2022 | Collinsville |
| Oklahoma | ODEQ | 9978 | NELAP | 8/31/2022 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2022 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2023 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2023 | Collinsville |
| Missouri | MDNR | 930 | | 1/31/2025 | Collinsville |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-011
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 304
 Collection Date: 09/14/2021 9:48

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water | * | -5.00 | | 10.09 | ft | 1 | 09/14/2021 9:48 | R299488 |
| Depth to water from measuring point | * | 0 | | 10.09 | ft | 1 | 09/14/2021 9:48 | R299488 |
| Elevation of groundwater surface | * | 0 | | 445.40 | ft | 1 | 09/14/2021 9:48 | R299488 |
| Measuring Point Elevation | * | 0 | | 455.49 | ft | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 3.4 | NTU | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -24 | mV | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 2730 | µS/cm | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 17.2 | °C | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.38 | mg/L | 1 | 09/14/2021 9:48 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.72 | | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 784 | mg/L | 1 | 09/15/2021 13:51 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 13:51 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 1290 | mg/L | 1 | 09/17/2021 15:03 | R299150 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 200 | | 231 | mg/L | 20 | 09/20/2021 17:05 | R299276 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.60 | mg/L | 1 | 09/15/2021 13:43 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 5 | | 168 | mg/L | 5 | 09/16/2021 21:35 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 13.3 | mg/L | 1 | 09/21/2021 1:40 | 181946 |
| Magnesium | NELAP | 0.050 | | 5.79 | mg/L | 1 | 09/21/2021 1:40 | 181946 |
| Potassium | NELAP | 0.100 | | 2.36 | mg/L | 1 | 09/21/2021 1:40 | 181946 |
| Sodium | NELAP | 0.050 | | 565 | mg/L | 1 | 09/21/2021 1:40 | 181946 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/24/2021 1:02 | 181947 |
| Arsenic | NELAP | 0.0010 | | 0.0021 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Barium | NELAP | 0.0010 | | 0.0189 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Boron | NELAP | 0.0250 | | 1.61 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Lithium | * | 0.0030 | | 0.0777 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Molybdenum | NELAP | 0.0015 | | 0.0021 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/21/2021 21:57 | 181947 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/24/2021 1:02 | 181947 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-012
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 306

Collection Date: 09/16/2021 12:31

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|--|---------------|--------|------|--------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water | * | -5.00 | | 10.18 | ft | 1 | 09/16/2021 12:31 | R299488 |
| Depth to water from measuring point | * | 0 | | 10.18 | ft | 1 | 09/16/2021 12:31 | R299488 |
| Elevation of groundwater surface | * | 0 | | 442.99 | ft | 1 | 09/16/2021 12:31 | R299488 |
| Measuring Point Elevation | * | 0 | | 453.17 | ft | 1 | 09/16/2021 12:31 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 13 | NTU | 1 | 09/16/2021 12:31 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -57 | mV | 1 | 09/16/2021 12:31 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 6540 | µS/cm | 1 | 09/16/2021 12:31 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 18.4 | °C | 1 | 09/16/2021 12:31 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 7.45 | mg/L | 1 | 09/16/2021 12:31 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 12.0 | | 1 | 09/16/2021 12:31 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 09/17/2021 11:39 | R299047 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 78 | mg/L | 1 | 09/17/2021 11:39 | R299047 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 934 | mg/L | 1 | 09/21/2021 14:47 | R299280 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 20 | R | < 20 | mg/L | 2 | 09/23/2021 15:21 | R299361 |
| <i>RPD for MS/MSD was outside control limits due to matrix interference.</i> | | | | | | | | |
| <i>Elevated reporting limit due to matrix interference.</i> | | | | | | | | |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.13 | mg/L | 1 | 09/17/2021 14:16 | R299066 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 10 | | 96 | mg/L | 10 | 09/20/2021 22:09 | R299278 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | S | 594 | mg/L | 1 | 09/21/2021 1:48 | 181946 |
| Magnesium | NELAP | 0.050 | | 0.136 | mg/L | 1 | 09/21/2021 1:48 | 181946 |
| Potassium | NELAP | 0.100 | | 2.58 | mg/L | 1 | 09/21/2021 1:48 | 181946 |
| Sodium | NELAP | 0.050 | | 21.9 | mg/L | 1 | 09/21/2021 1:48 | 181946 |
| <i>Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.</i> | | | | | | | | |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | J | 0.0008 | mg/L | 5 | 09/30/2021 3:14 | 181947 |
| Arsenic | NELAP | 0.0010 | J | 0.0007 | mg/L | 5 | 09/30/2021 3:14 | 181947 |
| Barium | NELAP | 0.0010 | | 1.04 | mg/L | 5 | 09/30/2021 3:14 | 181947 |
| Boron | NELAP | 0.0250 | J | 0.0177 | mg/L | 5 | 09/21/2021 22:05 | 181947 |
| Chromium | NELAP | 0.0015 | | 0.0271 | mg/L | 5 | 09/21/2021 22:05 | 181947 |
| Cobalt | NELAP | 0.0010 | | 0.0035 | mg/L | 5 | 09/21/2021 22:05 | 181947 |
| Lead | NELAP | 0.0010 | | 0.0052 | mg/L | 5 | 09/21/2021 22:05 | 181947 |
| Lithium | * | 0.0030 | | 0.0584 | mg/L | 5 | 09/21/2021 22:05 | 181947 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

Lab ID: 21081645-012

Client Sample ID: 306

Matrix: GROUNDWATER

Collection Date: 09/16/2021 12:31

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|--------------------|-------|----|-----------------|--------|
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Molybdenum | NELAP | 0.0015 | | 0.0086 | mg/L | 5 | 09/30/2021 3:14 | 181947 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/30/2021 3:14 | 181947 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/24/2021 1:11 | 181947 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-013
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 350
 Collection Date: 09/14/2021 15:53

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|--------------------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water | * | -5.00 | | 23.38 | ft | 1 | 09/14/2021 15:53 | R299488 |
| Depth to water from measuring point | * | 0 | | 23.38 | ft | 1 | 09/14/2021 15:53 | R299488 |
| Elevation of groundwater surface | * | 0 | | 373.42 | ft | 1 | 09/14/2021 15:53 | R299488 |
| Measuring Point Elevation | * | 0 | | 396.80 | ft | 1 | 09/14/2021 15:53 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 8.5 | NTU | 1 | 09/14/2021 15:53 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -253 | mV | 1 | 09/14/2021 15:53 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 858 | µS/cm | 1 | 09/14/2021 15:53 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 16.8 | °C | 1 | 09/14/2021 15:53 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.34 | mg/L | 1 | 09/14/2021 15:53 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 8.01 | | 1 | 09/14/2021 15:53 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 231 | mg/L | 1 | 09/15/2021 14:00 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 14:00 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 402 | mg/L | 1 | 09/17/2021 15:03 | R299150 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 99 | mg/L | 5 | 09/20/2021 17:16 | R299276 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.15 | mg/L | 1 | 09/15/2021 13:45 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 2 | | 29 | mg/L | 2 | 09/16/2021 21:46 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | S | 25.1 | mg/L | 1 | 09/23/2021 13:35 | 182141 |
| Magnesium | NELAP | 0.050 | | 4.38 | mg/L | 1 | 09/23/2021 13:35 | 182141 |
| Potassium | NELAP | 0.100 | | 5.52 | mg/L | 1 | 09/23/2021 13:35 | 182141 |
| Sodium | NELAP | 0.050 | S | 74.3 | mg/L | 1 | 09/23/2021 13:35 | 182141 |
| <i>Matrix spike control limits for Ca and Na are not applicable due to high sample/spike ratio.</i> | | | | | | | | |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | 0.0026 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Arsenic | NELAP | 0.0010 | J | 0.0007 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Barium | NELAP | 0.0010 | | 0.179 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Boron | NELAP | 0.0250 | | 0.622 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Chromium | NELAP | 0.0015 | | 0.0021 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Cobalt | NELAP | 0.0010 | J | 0.0003 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Lead | NELAP | 0.0010 | | 0.0027 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Lithium | * | 0.0030 | | 0.0834 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Molybdenum | NELAP | 0.0015 | | 0.0043 | mg/L | 5 | 09/27/2021 23:44 | 182143 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/27/2021 23:44 | 182143 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081645-013
Matrix: GROUNDWATER

Work Order: 21081645
Report Date: 10-Feb-22
Client Sample ID: 350
Collection Date: 09/14/2021 15:53

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|---------------|-------|----|------------------|--------|
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Thallium | NELAP | 0.0020 | J | 0.0012 | mg/L | 5 | 09/27/2021 23:44 | 182143 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-017
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22
 Client Sample ID: 366
 Collection Date: 09/15/2021 9:05

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 17.19 | ft | 1 | 09/15/2021 9:05 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 4.0 | NTU | 1 | 09/15/2021 9:05 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -17 | mV | 1 | 09/15/2021 9:05 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1940 | µS/cm | 1 | 09/15/2021 9:05 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 16.6 | °C | 1 | 09/15/2021 9:05 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 1.22 | mg/L | 1 | 09/15/2021 9:05 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 6.77 | | 1 | 09/15/2021 9:05 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 313 | mg/L | 1 | 09/17/2021 8:33 | R299047 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 0 | mg/L | 1 | 09/17/2021 8:33 | R299047 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 1140 | mg/L | 1 | 09/21/2021 14:48 | R299280 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 200 | | 597 | mg/L | 20 | 09/23/2021 16:04 | R299361 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.46 | mg/L | 1 | 09/17/2021 9:44 | R299066 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 1 | | 47 | mg/L | 1 | 09/20/2021 22:54 | R299278 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 181 | mg/L | 1 | 09/23/2021 19:03 | 182134 |
| Magnesium | NELAP | 0.050 | | 81.6 | mg/L | 1 | 09/23/2021 19:03 | 182134 |
| Potassium | NELAP | 0.100 | | 4.39 | mg/L | 1 | 09/23/2021 19:03 | 182134 |
| Sodium | NELAP | 0.050 | | 63.3 | mg/L | 1 | 09/23/2021 19:03 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Arsenic | NELAP | 0.0010 | J | 0.0006 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0507 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Boron | NELAP | 0.0250 | | 1.67 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Cobalt | NELAP | 0.0010 | J | 0.0002 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Lithium | * | 0.0030 | | 0.0146 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0039 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 1:11 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 1:11 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-020
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 375
 Collection Date: 09/14/2021 14:47

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 32.04 | ft | 1 | 09/14/2021 14:47 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 5.3 | NTU | 1 | 09/14/2021 14:47 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -106 | mV | 1 | 09/14/2021 14:47 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 2070 | µS/cm | 1 | 09/14/2021 14:47 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 16.2 | °C | 1 | 09/14/2021 14:47 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.41 | mg/L | 1 | 09/14/2021 14:47 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.76 | | 1 | 09/14/2021 14:47 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 585 | mg/L | 1 | 09/15/2021 14:05 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 14:05 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 976 | mg/L | 1 | 09/17/2021 15:25 | R299150 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 100 | | 176 | mg/L | 10 | 09/16/2021 21:53 | R299089 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 2.38 | mg/L | 1 | 09/15/2021 13:48 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 10 | | 114 | mg/L | 10 | 09/16/2021 21:53 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 11.8 | mg/L | 1 | 09/23/2021 19:20 | 182134 |
| Magnesium | NELAP | 0.050 | | 6.09 | mg/L | 1 | 09/23/2021 19:20 | 182134 |
| Potassium | NELAP | 0.100 | | 2.57 | mg/L | 1 | 09/23/2021 19:20 | 182134 |
| Sodium | NELAP | 0.050 | | 330 | mg/L | 1 | 09/23/2021 19:20 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | J | 0.0007 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Arsenic | NELAP | 0.0010 | | 0.0017 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0230 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Boron | NELAP | 0.0250 | | 1.33 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Lithium | * | 0.0030 | | 0.0765 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0241 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 1:54 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 1:54 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-021
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22
 Client Sample ID: 377
 Collection Date: 09/14/2021 14:04

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 5.25 | ft | 1 | 09/14/2021 14:04 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 5.8 | NTU | 1 | 09/14/2021 14:04 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -2 | mV | 1 | 09/14/2021 14:04 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1330 | µS/cm | 1 | 09/14/2021 14:04 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 21.3 | °C | 1 | 09/14/2021 14:04 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.61 | mg/L | 1 | 09/14/2021 14:04 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.13 | | 1 | 09/14/2021 14:04 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 437 | mg/L | 1 | 09/15/2021 14:13 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 14:13 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 580 | mg/L | 1 | 09/17/2021 15:25 | R299150 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 10 | | 38 | mg/L | 1 | 09/16/2021 21:56 | R299089 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.15 | mg/L | 1 | 09/15/2021 13:49 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 10 | | 100 | mg/L | 10 | 09/16/2021 22:01 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 55.2 | mg/L | 1 | 09/23/2021 19:21 | 182134 |
| Magnesium | NELAP | 0.050 | | 37.2 | mg/L | 1 | 09/23/2021 19:21 | 182134 |
| Potassium | NELAP | 0.100 | | 3.28 | mg/L | 1 | 09/23/2021 19:21 | 182134 |
| Sodium | NELAP | 0.050 | | 123 | mg/L | 1 | 09/23/2021 19:21 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Arsenic | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0630 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Boron | NELAP | 0.0250 | | 1.77 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Lithium | * | 0.0030 | | 0.0647 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Molybdenum | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:03 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 2:03 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-023
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 383
 Collection Date: 09/13/2021 16:24

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 18.51 | ft | 1 | 09/13/2021 16:24 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 5.6 | NTU | 1 | 09/13/2021 16:24 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -5 | mV | 1 | 09/13/2021 16:24 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1670 | µS/cm | 1 | 09/13/2021 16:24 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 22.3 | °C | 1 | 09/13/2021 16:24 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.77 | mg/L | 1 | 09/13/2021 16:24 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.59 | | 1 | 09/13/2021 16:24 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 581 | mg/L | 1 | 09/15/2021 14:20 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 14:20 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 864 | mg/L | 1 | 09/17/2021 15:25 | R299150 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 100 | | 168 | mg/L | 10 | 09/16/2021 22:09 | R299089 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.70 | mg/L | 1 | 09/15/2021 13:51 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 1 | | 45 | mg/L | 1 | 09/16/2021 22:04 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 17.1 | mg/L | 1 | 09/23/2021 19:25 | 182134 |
| Magnesium | NELAP | 0.050 | | 6.52 | mg/L | 1 | 09/23/2021 19:25 | 182134 |
| Potassium | NELAP | 0.100 | | 1.95 | mg/L | 1 | 09/23/2021 19:25 | 182134 |
| Sodium | NELAP | 0.050 | | 302 | mg/L | 1 | 09/23/2021 19:25 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Arsenic | NELAP | 0.0010 | J | 0.0006 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0443 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Boron | NELAP | 0.0250 | | 1.34 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Lithium | * | 0.0030 | | 0.0389 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0088 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 2:55 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 2:55 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-024
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 384
 Collection Date: 09/13/2021 15:55

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 13.58 | ft | 1 | 09/13/2021 15:55 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 7.2 | NTU | 1 | 09/13/2021 15:55 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -93 | mV | 1 | 09/13/2021 15:55 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 3040 | µS/cm | 1 | 09/13/2021 15:55 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 20.7 | °C | 1 | 09/13/2021 15:55 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.42 | mg/L | 1 | 09/13/2021 15:55 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 8.00 | | 1 | 09/13/2021 15:55 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 632 | mg/L | 1 | 09/15/2021 14:28 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 14:28 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 1440 | mg/L | 1 | 09/17/2021 15:26 | R299150 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 10 | | 40 | mg/L | 1 | 09/16/2021 22:28 | R299089 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 3.82 | mg/L | 1 | 09/15/2021 13:53 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 20 | | 501 | mg/L | 20 | 09/20/2021 18:07 | R299278 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 20.0 | mg/L | 1 | 09/23/2021 19:26 | 182134 |
| Magnesium | NELAP | 0.050 | | 7.86 | mg/L | 1 | 09/23/2021 19:26 | 182134 |
| Potassium | NELAP | 0.100 | | 2.47 | mg/L | 1 | 09/23/2021 19:26 | 182134 |
| Sodium | NELAP | 0.050 | | 553 | mg/L | 1 | 09/23/2021 19:26 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Arsenic | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0521 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Boron | NELAP | 0.0250 | | 1.54 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Chromium | NELAP | 0.0015 | J | 0.0015 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Cobalt | NELAP | 0.0010 | J | 0.0003 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Lithium | * | 0.0030 | | 0.0488 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0450 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:04 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 3:04 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-025
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 390
 Collection Date: 09/15/2021 8:21

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 8.01 | ft | 1 | 09/15/2021 8:21 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 6.7 | NTU | 1 | 09/15/2021 8:21 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -98 | mV | 1 | 09/15/2021 8:21 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 2200 | µS/cm | 1 | 09/15/2021 8:21 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 18.4 | °C | 1 | 09/15/2021 8:21 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.51 | mg/L | 1 | 09/15/2021 8:21 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.06 | | 1 | 09/15/2021 8:21 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 416 | mg/L | 1 | 09/17/2021 9:02 | R299047 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 09/17/2021 9:02 | R299047 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 682 | mg/L | 1 | 09/21/2021 15:42 | R299280 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 100 | | 152 | mg/L | 10 | 09/20/2021 23:47 | R299276 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.26 | mg/L | 1 | 09/17/2021 9:51 | R299066 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 10 | | 62 | mg/L | 10 | 09/20/2021 23:47 | R299278 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 90.2 | mg/L | 1 | 09/23/2021 19:28 | 182134 |
| Magnesium | NELAP | 0.050 | | 38.6 | mg/L | 1 | 09/23/2021 19:28 | 182134 |
| Potassium | NELAP | 0.100 | | 3.26 | mg/L | 1 | 09/23/2021 19:28 | 182134 |
| Sodium | NELAP | 0.050 | | 68.4 | mg/L | 1 | 09/23/2021 19:28 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Arsenic | NELAP | 0.0010 | | 0.0015 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0695 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Boron | NELAP | 0.0250 | | 0.308 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Cobalt | NELAP | 0.0010 | J | 0.0006 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Lead | NELAP | 0.0010 | J | 0.0010 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Lithium | * | 0.0030 | | 0.0163 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0033 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:13 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 3:13 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-026
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22

Client Sample ID: 391
 Collection Date: 09/14/2021 16:52

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 50.18 | ft | 1 | 09/14/2021 16:52 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 6.0 | NTU | 1 | 09/14/2021 16:52 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -4 | mV | 1 | 09/14/2021 16:52 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 4460 | µS/cm | 1 | 09/14/2021 16:52 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 20.4 | °C | 1 | 09/14/2021 16:52 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 1.47 | mg/L | 1 | 09/14/2021 16:52 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.74 | | 1 | 09/14/2021 16:52 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 560 | mg/L | 1 | 09/15/2021 14:36 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 0 | mg/L | 1 | 09/15/2021 14:36 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 1620 | mg/L | 1 | 09/20/2021 16:40 | R299208 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 200 | | 668 | mg/L | 20 | 09/20/2021 17:18 | R299276 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 3.10 | mg/L | 1 | 09/15/2021 13:55 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 10 | | 116 | mg/L | 10 | 09/16/2021 22:41 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 8.95 | mg/L | 1 | 09/23/2021 19:30 | 182134 |
| Magnesium | NELAP | 0.050 | | 4.55 | mg/L | 1 | 09/23/2021 19:30 | 182134 |
| Potassium | NELAP | 0.100 | | 2.70 | mg/L | 1 | 09/23/2021 19:30 | 182134 |
| Sodium | NELAP | 0.050 | | 527 | mg/L | 1 | 09/23/2021 19:30 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | 0.0019 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Arsenic | NELAP | 0.0010 | | 0.0034 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0165 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Boron | NELAP | 0.0250 | | 2.84 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Cobalt | NELAP | 0.0010 | J | 0.0002 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Lithium | * | 0.0030 | | 0.0707 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0298 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Selenium | NELAP | 0.0010 | | 0.0012 | mg/L | 5 | 09/28/2021 3:21 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 3:21 | 182135 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Vistra Energy
 Client Project: Baldwin Groundwater Q3 2021
 Lab ID: 21081645-029
 Matrix: GROUNDWATER

Work Order: 21081645
 Report Date: 10-Feb-22
 Client Sample ID: 304 DUP
 Collection Date: 09/14/2021 9:45

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water | * | -5.00 | | 10.09 | ft | 1 | 09/14/2021 9:48 | R299488 |
| Depth to water from measuring point | * | 0 | | 10.09 | ft | 1 | 09/14/2021 9:48 | R299488 |
| Elevation of groundwater surface | * | 0 | | 445.40 | ft | 1 | 09/14/2021 9:48 | R299488 |
| Measuring Point Elevation | * | 0 | | 455.49 | ft | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 3.4 | NTU | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -24 | mV | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 2730 | µS/cm | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 17.2 | °C | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.38 | mg/L | 1 | 09/14/2021 9:48 | R299488 |
| SW-846 9040B | | | | | | | | |
| pH, Field | * | 1.00 | | 7.72 | | 1 | 09/14/2021 9:48 | R299488 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 743 | mg/L | 1 | 09/15/2021 14:43 | R298991 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 20 | mg/L | 1 | 09/15/2021 14:43 | R298991 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | * | 20 | | 1260 | mg/L | 1 | 09/20/2021 15:28 | R299208 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 234 | mg/L | 5 | 09/16/2021 22:44 | R299089 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.67 | mg/L | 1 | 09/15/2021 14:05 | R298993 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 5 | | 163 | mg/L | 5 | 09/16/2021 22:44 | R299090 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 10.1 | mg/L | 1 | 09/23/2021 19:54 | 182134 |
| Magnesium | NELAP | 0.050 | | 4.52 | mg/L | 1 | 09/23/2021 19:54 | 182134 |
| Potassium | NELAP | 0.100 | | 2.20 | mg/L | 1 | 09/23/2021 19:54 | 182134 |
| Sodium | NELAP | 0.050 | | 510 | mg/L | 1 | 09/23/2021 19:54 | 182134 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | J | 0.0005 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Arsenic | NELAP | 0.0010 | | 0.0025 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Barium | NELAP | 0.0010 | | 0.0193 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Boron | NELAP | 0.0250 | | 1.65 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Lithium | * | 0.0030 | | 0.0785 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Molybdenum | NELAP | 0.0015 | | 0.0022 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 09/28/2021 3:30 | 182135 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 09/28/2021 3:30 | 182135 |



Sample Summary

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---------------|------------------|-------------|-----------|------------------|
| 21081645-011 | 304 | Groundwater | 4 | 09/14/2021 9:48 |
| 21081645-012 | 306 | Groundwater | 4 | 09/16/2021 12:31 |
| 21081645-013 | 350 | Groundwater | 4 | 09/14/2021 15:53 |
| 21081645-017 | 366 | Groundwater | 2 | 09/15/2021 9:05 |
| 21081645-020 | 375 | Groundwater | 2 | 09/14/2021 14:47 |
| 21081645-021 | 377 | Groundwater | 2 | 09/14/2021 14:04 |
| 21081645-023 | 383 | Groundwater | 2 | 09/13/2021 16:24 |
| 21081645-024 | 384 | Groundwater | 2 | 09/13/2021 15:55 |
| 21081645-025 | 390 | Groundwater | 2 | 09/15/2021 8:21 |
| 21081645-026 | 391 | Groundwater | 2 | 09/14/2021 16:52 |
| 21081645-029 | 304 DUP | Groundwater | 4 | 09/14/2021 9:45 |



Dates Report

<http://www.teklabinc.com/>

Client: **Vistra Energy**

Work Order: **21081645**

Client Project: **Baldwin Groundwater Q3 2021**

Report Date: **10-Feb-22**

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| 21081645-011A | 304 | 09/14/2021 9:48 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/14/2021 9:48 |
| | Standard Methods 2130 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 13:51 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 13:51 |
| | Standard Methods 2510 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/17/2021 15:03 |
| | Standard Methods 2550 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/16/2021 19:10 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 09/16/2021 10:43 |
| | Standard Methods 4500-O G Field | | | | 09/14/2021 9:48 |
| | SW-846 9036 (Total) | | | | 09/20/2021 17:05 |
| | SW-846 9040B | | | | 09/14/2021 9:48 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:43 |
| | SW-846 9251 (Total) | | | | 09/16/2021 21:35 |
| 21081645-011B | 304 | 09/14/2021 9:48 | 09/16/2021 13:50 | | |
| | Standard Methods 2540 C (Dissolved) 1997, 2011 | | | | 09/20/2021 16:41 |
| | SW-846 9036 (Dissolved) | | | | 09/20/2021 16:14 |
| | SW-846 9251 (Dissolved) | | | | 09/16/2021 0:08 |
| 21081645-011C | 304 | 09/14/2021 9:48 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/17/2021 11:40 | 09/21/2021 1:40 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/17/2021 11:40 | 09/21/2021 1:40 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/17/2021 12:04 | 09/21/2021 21:57 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/17/2021 12:04 | 09/24/2021 1:02 |
| 21081645-011D | 304 | 09/14/2021 9:48 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 09/22/2021 9:13 | 09/22/2021 17:24 |
| 21081645-012A | 306 | 09/16/2021 12:31 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/16/2021 12:31 |
| | Standard Methods 2130 B Field | | | | 09/16/2021 12:31 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/16/2021 12:31 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/17/2021 11:39 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/17/2021 11:39 |
| | Standard Methods 2510 B Field | | | | 09/16/2021 12:31 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/21/2021 14:47 |
| | Standard Methods 2550 B Field | | | | 09/16/2021 12:31 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/16/2021 20:06 |



Dates Report

<http://www.teklabinc.com/>

Client: **Vistra Energy**

Work Order: **21081645**

Client Project: **Baldwin Groundwater Q3 2021**

Report Date: **10-Feb-22**

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 09/17/2021 13:11 |
| | Standard Methods 4500-O G Field | | | | 09/16/2021 12:31 |
| | SW-846 9036 (Total) | | | | 09/23/2021 15:21 |
| | SW-846 9040B | | | | 09/16/2021 12:31 |
| | SW-846 9214 (Total) | | | | 09/17/2021 14:16 |
| | SW-846 9251 (Total) | | | | 09/20/2021 22:09 |
| 21081645-012B | 306 | 09/16/2021 12:31 | 09/16/2021 13:50 | | |
| | Standard Methods 2540 C (Dissolved) 1997, 2011 | | | | 09/21/2021 14:14 |
| | SW-846 9036 (Dissolved) | | | | 09/27/2021 16:56 |
| | SW-846 9251 (Dissolved) | | | | 09/20/2021 21:56 |
| 21081645-012C | 306 | 09/16/2021 12:31 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/17/2021 11:40 | 09/21/2021 1:48 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/17/2021 11:40 | 09/21/2021 1:48 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/17/2021 12:04 | 09/21/2021 22:05 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/17/2021 12:04 | 09/24/2021 1:11 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/17/2021 12:04 | 09/30/2021 3:14 |
| 21081645-012D | 306 | 09/16/2021 12:31 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 09/22/2021 9:13 | 09/22/2021 17:26 |
| 21081645-013A | 350 | 09/14/2021 15:53 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/14/2021 15:53 |
| | Standard Methods 2130 B Field | | | | 09/14/2021 15:53 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/14/2021 15:53 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:00 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:00 |
| | Standard Methods 2510 B Field | | | | 09/14/2021 15:53 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/17/2021 15:03 |
| | Standard Methods 2550 B Field | | | | 09/14/2021 15:53 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/16/2021 19:10 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 09/16/2021 10:59 |
| | Standard Methods 4500-O G Field | | | | 09/14/2021 15:53 |
| | SW-846 9036 (Total) | | | | 09/20/2021 17:16 |
| | SW-846 9040B | | | | 09/14/2021 15:53 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:45 |
| | SW-846 9251 (Total) | | | | 09/16/2021 21:46 |
| 21081645-013B | 350 | 09/14/2021 15:53 | 09/16/2021 13:50 | | |
| | Standard Methods 2540 C (Dissolved) 1997, 2011 | | | | 09/20/2021 16:05 |
| | SW-846 9036 (Dissolved) | | | | 09/16/2021 0:18 |



Dates Report

<http://www.teklabinc.com/>

Client: **Vistra Energy**

Work Order: **21081645**

Client Project: **Baldwin Groundwater Q3 2021**

Report Date: **10-Feb-22**

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| | SW-846 9251 (Dissolved) | | | | 09/16/2021 0:19 |
| 21081645-013C | 350 | 09/14/2021 15:53 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 16:46 | 09/23/2021 13:35 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 16:46 | 09/23/2021 13:35 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 18:07 | 09/27/2021 23:44 |
| 21081645-013D | 350 | 09/14/2021 15:53 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 09/22/2021 9:13 | 09/22/2021 17:37 |
| 21081645-017A | 366 | 09/15/2021 9:05 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/15/2021 9:05 |
| | Standard Methods 2130 B Field | | | | 09/15/2021 9:05 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/15/2021 9:05 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/17/2021 8:33 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/17/2021 8:33 |
| | Standard Methods 2510 B Field | | | | 09/15/2021 9:05 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/21/2021 14:48 |
| | Standard Methods 2550 B Field | | | | 09/15/2021 9:05 |
| | Standard Methods 4500-O G Field | | | | 09/15/2021 9:05 |
| | SW-846 9036 (Total) | | | | 09/23/2021 16:04 |
| | SW-846 9040B | | | | 09/15/2021 9:05 |
| | SW-846 9214 (Total) | | | | 09/17/2021 9:44 |
| | SW-846 9251 (Total) | | | | 09/20/2021 22:54 |
| 21081645-017B | 366 | 09/15/2021 9:05 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:03 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 1:11 |
| 21081645-020A | 375 | 09/14/2021 14:47 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/14/2021 14:47 |
| | Standard Methods 2130 B Field | | | | 09/14/2021 14:47 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/14/2021 14:47 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:05 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:05 |
| | Standard Methods 2510 B Field | | | | 09/14/2021 14:47 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/17/2021 15:25 |
| | Standard Methods 2550 B Field | | | | 09/14/2021 14:47 |
| | Standard Methods 4500-O G Field | | | | 09/14/2021 14:47 |
| | SW-846 9036 (Total) | | | | 09/16/2021 21:53 |
| | SW-846 9040B | | | | 09/14/2021 14:47 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:48 |



Dates Report

<http://www.teklabinc.com/>

Client: **Vistra Energy**

Work Order: **21081645**

Client Project: **Baldwin Groundwater Q3 2021**

Report Date: **10-Feb-22**

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| | SW-846 9251 (Total) | | | | 09/16/2021 21:53 |
| 21081645-020B | 375 | 09/14/2021 14:47 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:20 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 1:54 |
| 21081645-021A | 377 | 09/14/2021 14:04 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/14/2021 14:04 |
| | Standard Methods 2130 B Field | | | | 09/14/2021 14:04 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/14/2021 14:04 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:13 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:13 |
| | Standard Methods 2510 B Field | | | | 09/14/2021 14:04 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/17/2021 15:25 |
| | Standard Methods 2550 B Field | | | | 09/14/2021 14:04 |
| | Standard Methods 4500-O G Field | | | | 09/14/2021 14:04 |
| | SW-846 9036 (Total) | | | | 09/16/2021 21:56 |
| | SW-846 9040B | | | | 09/14/2021 14:04 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:49 |
| | SW-846 9251 (Total) | | | | 09/16/2021 22:01 |
| 21081645-021B | 377 | 09/14/2021 14:04 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:21 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 2:03 |
| 21081645-023A | 383 | 09/13/2021 16:24 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/13/2021 16:24 |
| | Standard Methods 2130 B Field | | | | 09/13/2021 16:24 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/13/2021 16:24 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:20 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:20 |
| | Standard Methods 2510 B Field | | | | 09/13/2021 16:24 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/17/2021 15:25 |
| | Standard Methods 2550 B Field | | | | 09/13/2021 16:24 |
| | Standard Methods 4500-O G Field | | | | 09/13/2021 16:24 |
| | SW-846 9036 (Total) | | | | 09/16/2021 22:09 |
| | SW-846 9040B | | | | 09/13/2021 16:24 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:51 |
| | SW-846 9251 (Total) | | | | 09/16/2021 22:04 |
| 21081645-023B | 383 | 09/13/2021 16:24 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:25 |



Dates Report

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 2:55 |
| 21081645-024A | 384 | 09/13/2021 15:55 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/13/2021 15:55 |
| | Standard Methods 2130 B Field | | | | 09/13/2021 15:55 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/13/2021 15:55 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:28 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:28 |
| | Standard Methods 2510 B Field | | | | 09/13/2021 15:55 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/17/2021 15:26 |
| | Standard Methods 2550 B Field | | | | 09/13/2021 15:55 |
| | Standard Methods 4500-O G Field | | | | 09/13/2021 15:55 |
| | SW-846 9036 (Total) | | | | 09/16/2021 22:28 |
| | SW-846 9040B | | | | 09/13/2021 15:55 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:53 |
| | SW-846 9251 (Total) | | | | 09/20/2021 18:07 |
| 21081645-024B | 384 | 09/13/2021 15:55 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:26 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 3:04 |
| 21081645-025A | 390 | 09/15/2021 8:21 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/15/2021 8:21 |
| | Standard Methods 2130 B Field | | | | 09/15/2021 8:21 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/15/2021 8:21 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/17/2021 9:02 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/17/2021 9:02 |
| | Standard Methods 2510 B Field | | | | 09/15/2021 8:21 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/21/2021 15:42 |
| | Standard Methods 2550 B Field | | | | 09/15/2021 8:21 |
| | Standard Methods 4500-O G Field | | | | 09/15/2021 8:21 |
| | SW-846 9036 (Total) | | | | 09/20/2021 23:47 |
| | SW-846 9040B | | | | 09/15/2021 8:21 |
| | SW-846 9214 (Total) | | | | 09/17/2021 9:51 |
| | SW-846 9251 (Total) | | | | 09/20/2021 23:47 |
| 21081645-025B | 390 | 09/15/2021 8:21 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:28 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 3:13 |
| 21081645-026A | 391 | 09/14/2021 16:52 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/14/2021 16:52 |



Dates Report

<http://www.teklabinc.com/>

Client: **Vistra Energy**

Work Order: **21081645**

Client Project: **Baldwin Groundwater Q3 2021**

Report Date: **10-Feb-22**

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| | Standard Methods 2130 B Field | | | | 09/14/2021 16:52 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/14/2021 16:52 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:36 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:36 |
| | Standard Methods 2510 B Field | | | | 09/14/2021 16:52 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/20/2021 16:40 |
| | Standard Methods 2550 B Field | | | | 09/14/2021 16:52 |
| | Standard Methods 4500-O G Field | | | | 09/14/2021 16:52 |
| | SW-846 9036 (Total) | | | | 09/20/2021 17:18 |
| | SW-846 9040B | | | | 09/14/2021 16:52 |
| | SW-846 9214 (Total) | | | | 09/15/2021 13:55 |
| | SW-846 9251 (Total) | | | | 09/16/2021 22:41 |
| 21081645-026B | 391 | 09/14/2021 16:52 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:30 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 3:21 |
| 21081645-029A | 304 DUP | 09/14/2021 9:45 | 09/16/2021 13:50 | | |
| | Field Elevation Measurements | | | | 09/14/2021 9:48 |
| | Standard Methods 2130 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 09/15/2021 14:43 |
| | Standard Methods 2320 B 1997, 2011 | | | | 09/15/2021 14:43 |
| | Standard Methods 2510 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 09/20/2021 15:28 |
| | Standard Methods 2550 B Field | | | | 09/14/2021 9:48 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/16/2021 19:12 |
| | Standard Methods 4500-NO3 F (Total) 2000, 2011 | | | | 09/16/2021 11:12 |
| | Standard Methods 4500-O G Field | | | | 09/14/2021 9:48 |
| | SW-846 9036 (Total) | | | | 09/16/2021 22:44 |
| | SW-846 9040B | | | | 09/14/2021 9:48 |
| | SW-846 9214 (Total) | | | | 09/15/2021 14:05 |
| | SW-846 9251 (Total) | | | | 09/16/2021 22:44 |
| 21081645-029B | 304 DUP | 09/14/2021 9:45 | 09/16/2021 13:50 | | |
| | Standard Methods 2540 C (Dissolved) 1997, 2011 | | | | 09/20/2021 16:06 |
| | SW-846 9036 (Dissolved) | | | | 09/16/2021 0:42 |
| | SW-846 9251 (Dissolved) | | | | 09/16/2021 0:43 |
| 21081645-029C | 304 DUP | 09/14/2021 9:45 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:54 |



Dates Report

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|-----------------|------------------|------------------|--------------------|
| | Test Name | | | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 09/22/2021 13:52 | 09/23/2021 19:54 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 09/22/2021 14:00 | 09/28/2021 3:30 |
| 21081645-029D | 304 DUP | 09/14/2021 9:45 | 09/16/2021 13:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Dissolved) | | | 09/22/2021 9:13 | 09/22/2021 18:03 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

STANDARD METHODS 2510 B FIELD

Batch **R299488** SampType: **LCS** Units **µS/cm**

SampID: LCS-R299488

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|--------------------------|------|----|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| Spec. Conductance, Field | * | 0 | | 1500 | 1409 | 0 | 106.6 | 90 | 110 | 09/16/2021 |
| Spec. Conductance, Field | * | 0 | | 1340 | 1409 | 0 | 95.2 | 90 | 110 | 09/15/2021 |
| Spec. Conductance, Field | * | 0 | | 1320 | 1409 | 0 | 93.7 | 90 | 110 | 09/14/2021 |
| Spec. Conductance, Field | * | 0 | | 1450 | 1409 | 0 | 102.8 | 90 | 110 | 09/13/2021 |

SW-846 9040B

Batch **R299488** SampType: **LCS** Units

SampID: LCS-R299488

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|------|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| pH, Field | * | 1.00 | | 6.93 | 7.000 | 0 | 99.0 | 98.57 | 101.4 | 09/13/2021 |
| pH, Field | * | 1.00 | | 7.02 | 7.000 | 0 | 100.3 | 98.57 | 101.4 | 09/16/2021 |
| pH, Field | * | 1.00 | | 7.07 | 7.000 | 0 | 101.0 | 98.57 | 101.4 | 09/15/2021 |
| pH, Field | * | 1.00 | | 7.09 | 7.000 | 0 | 101.3 | 98.57 | 101.4 | 09/14/2021 |

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch **R299208** SampType: **DUP** Units **mg/L**

RPD Limit: 5

SampID: 21081645-003BDUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|------------------------|------|----|------|-------------|-------|-------------|------|-------------|------|---------------|
| Total Dissolved Solids | * | 20 | | 1580 | | | | 1520 | 3.74 | 09/20/2021 |

Batch **R299208** SampType: **DUP** Units **mg/L**

RPD Limit: 5

SampID: 21081645-014BDUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|------------------------|------|----|------|-------------|-------|-------------|------|-------------|------|---------------|
| Total Dissolved Solids | * | 20 | | 1320 | | | | 1324 | 0.61 | 09/20/2021 |

Batch **R299280** SampType: **DUP** Units **mg/L**

RPD Limit: 5

SampID: 21081645-010BDUP

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
|------------------------|------|----|------|------------|-------|-------------|------|-------------|------|---------------|
| Total Dissolved Solids | * | 20 | | 394 | | | | 382.0 | 3.09 | 09/21/2021 |

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

Batch **R299150** 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 | 09/17/2021 |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 09/17/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R299150 | | SampType: LCS | | Units mg/L | | | | | | | Date Analyzed |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Total Dissolved Solids | * | 20 | | 900 | 1000 | 0 | 90.0 | 90 | 110 | 09/17/2021 | |
| Total Dissolved Solids | * | 20 | | 908 | 1000 | 0 | 90.8 | 90 | 110 | 09/17/2021 | |

| Batch R299150 | | SampType: DUP | | Units mg/L | | | | | | | RPD Limit: 5 | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--------------|---------------|
| SampID: 21081645-001ADUP | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Total Dissolved Solids | * | 20 | | 1540 | | | | 1552 | 1.04 | 09/17/2021 | | |

| Batch R299150 | | SampType: DUP | | Units mg/L | | | | | | | RPD Limit: 5 | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--------------|---------------|
| SampID: 21081645-021ADUP | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Total Dissolved Solids | * | 20 | | 594 | | | | 580.0 | 2.39 | 09/17/2021 | | |

| Batch R299208 | | SampType: MBLK | | Units mg/L | | | | | | | Date Analyzed |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| 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 | 09/20/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 09/20/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 09/20/2021 | |

| Batch R299208 | | SampType: LCS | | Units mg/L | | | | | | | Date Analyzed |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Total Dissolved Solids | * | 20 | | 910 | 1000 | 0 | 91.0 | 90 | 110 | 09/20/2021 | |
| Total Dissolved Solids | * | 20 | | 930 | 1000 | 0 | 93.0 | 90 | 110 | 09/20/2021 | |
| Total Dissolved Solids | * | 20 | | 930 | 1000 | 0 | 93.0 | 90 | 110 | 09/20/2021 | |

| Batch R299208 | | SampType: DUP | | Units mg/L | | | | | | | RPD Limit: 5 | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--------------|---------------|
| SampID: 21081645-026ADUP | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Total Dissolved Solids | * | 20 | | 1580 | | | | 1620 | 2.25 | 09/20/2021 | | |

| Batch R299208 | | SampType: DUP | | Units mg/L | | | | | | | RPD Limit: 5 | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--------------|---------------|
| SampID: 21081645-028ADUP | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Total Dissolved Solids | * | 20 | | 716 | | | | 716.0 | 0.00 | 09/20/2021 | | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R299280 | | 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 | 09/21/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 09/21/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 09/21/2021 | |

| Batch R299280 | | 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 | | 934 | 1000 | 0 | 93.4 | 90 | 110 | 09/21/2021 | |
| Total Dissolved Solids | * | 20 | | 920 | 1000 | 0 | 92.0 | 90 | 110 | 09/21/2021 | |
| Total Dissolved Solids | * | 20 | | 930 | 1000 | 0 | 93.0 | 90 | 110 | 09/21/2021 | |

| Batch R299280 | | SampType: DUP | | Units mg/L | | | | | | RPD Limit: 5 | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--|
| SampID: 21081645-012ADUP | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Total Dissolved Solids | * | 20 | | 940 | | | | 934.0 | 0.64 | 09/21/2021 | |

| Batch R299280 | | SampType: DUP | | Units mg/L | | | | | | RPD Limit: 5 | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--|
| SampID: 21081645-019ADUP | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Total Dissolved Solids | * | 20 | | 3230 | | | | 3242 | 0.31 | 09/21/2021 | |

| Batch R300870 | | SampType: MBLK | | Units mg/L | | | | | | | |
|------------------------|------|----------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: MBLK | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | S | 38 | 16.00 | 0 | 237.5 | -100 | 100 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | S | 124 | 16.00 | 0 | 775.0 | -100 | 100 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R300870 | | SampType: LCS | | Units mg/L | | | | | | | |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Total Dissolved Solids | * | 20 | | 930 | 1000 | 0 | 93.0 | 90 | 110 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | | 916 | 1000 | 0 | 91.6 | 90 | 110 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | B | 956 | 1000 | 0 | 95.6 | 90 | 110 | 10/04/2021 | |
| Total Dissolved Solids | * | 20 | B | 986 | 1000 | 0 | 98.6 | 90 | 110 | 10/04/2021 | |

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

| Batch R299001 | | 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 | 09/15/2021 | |
| Nitrogen, Nitrite (as N) | | 0.05 | | < 0.05 | 0.0250 | 0 | 0 | -100 | 100 | 09/15/2021 | |

| Batch R299001 | | SampType: LCS | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|-------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.25 | | 1.60 | 1.520 | 0 | 105.6 | 90 | 110 | 09/15/2021 | |
| Nitrogen, Nitrite (as N) | | 0.25 | | 1.59 | 1.520 | 0 | 104.6 | 90 | 110 | 09/15/2021 | |

| Batch R299001 | | SampType: MS | | Units mg/L | | | | | | | |
|--------------------------|------|--------------|------|-------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-002AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | H | 0.49 | 0.5000 | 0 | 97.6 | 85 | 115 | 09/16/2021 | |

| Batch R299001 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|-------------|--------|-------------|-------|-------------|------|---------------|--|
| SampID: 21081645-002AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | H | 0.52 | 0.5000 | 0 | 104.0 | 0.4880 | 6.35 | 09/16/2021 | |

| Batch R299001 | | SampType: MS | | Units mg/L | | | | | | | |
|--------------------------|------|--------------|------|-------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-014AMS | | | | | | | | | | | |
| 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 | 96.6 | 85 | 115 | 09/15/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch R299001 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 10 | | | |
|--------------------------|------|---------------|------|-------------|--------|-------------|------|---------------|------|---------------|--|
| SampID: 21081645-014AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.49 | 0.5000 | 0 | 98.0 | 0.4830 | 1.44 | 09/15/2021 | |

| Batch R299001 | | SampType: MS | | Units mg/L | | | | | | | |
|--------------------------|------|--------------|------|-------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-015AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.46 | 0.5000 | 0 | 91.0 | 85 | 115 | 09/16/2021 | |

| Batch R299001 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 10 | | | |
|--------------------------|------|---------------|------|-------------|--------|-------------|------|---------------|------|---------------|--|
| SampID: 21081645-015AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.47 | 0.5000 | 0 | 93.8 | 0.4550 | 3.03 | 09/16/2021 | |

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

| Batch R299050 | | 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-Nitrite (as N) | | 0.050 | | < 0.050 | 0.0090 | 0 | 0 | -100 | 100 | 09/16/2021 | |

| Batch R299050 | | 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 | | 0.497 | 0.5000 | 0 | 99.4 | 90 | 110 | 09/16/2021 | |

| Batch R299050 | | SampType: MS | | Units mg/L | | | | | | | |
|----------------------------------|------|--------------|------|--------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-013AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | 0.331 | 0.2500 | 0.07730 | 101.3 | 85 | 115 | 09/16/2021 | |

| Batch R299050 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 10 | | | |
|----------------------------------|------|---------------|------|--------------|--------|-------------|-------|---------------|------|---------------|--|
| SampID: 21081645-013AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | 0.331 | 0.2500 | 0.07730 | 101.4 | 0.3306 | 0.03 | 09/16/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch R299088 | | 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-Nitrite (as N) | | 0.050 | | < 0.050 | 0.0090 | 0 | 0 | -100 | 100 | 09/17/2021 |

| Batch R299088 | | SampType: LCS | | Units mg/L | | | | | | |
|----------------------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: ICB/LCS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Nitrogen, Nitrate-Nitrite (as N) | | 0.050 | | 0.491 | 0.5000 | 0 | 98.2 | 90 | 110 | 09/17/2021 |

| Batch R299088 | | SampType: MS | | Units mg/L | | | | | | |
|----------------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 21081645-004AMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Nitrogen, Nitrate-Nitrite (as N) | | 1.00 | | 12.8 | 5.000 | 8.024 | 96.5 | 85 | 115 | 09/17/2021 |

| Batch R299088 | | SampType: MSD | | Units mg/L | | | | | | |
|----------------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|
| SampID: 21081645-004AMSD | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
| Nitrogen, Nitrate-Nitrite (as N) | | 1.00 | | 13.0 | 5.000 | 8.024 | 99.2 | 12.85 | 1.05 | 09/17/2021 |

SW-846 9036 (DISSOLVED)

| Batch R299089 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: 21081645-002BMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate | | 50 | | 188 | 100.0 | 77.35 | 110.6 | 85 | 115 | 09/16/2021 |

| Batch R299089 | | SampType: MSD | | Units mg/L | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|
| SampID: 21081645-002BMDS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
| Sulfate | | 50 | | 189 | 100.0 | 77.35 | 111.5 | 187.9 | 0.48 | 09/16/2021 |

| Batch R299276 | | SampType: MBLK | | Units mg/L | | | | | | |
|--------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: MB-R299276 | | | | | | | | | | |
| 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 | 09/20/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9036 (DISSOLVED)

| Batch R299276 | | SampType: LCS | | Units mg/L | | | | | | |
|---------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS-R299276 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate | | 10 | | 20 | 20.00 | 0 | 98.5 | 90 | 110 | 09/20/2021 |

| Batch R299276 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: 21081645-011BMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate | | 100 | | 408 | 200.0 | 198.4 | 105.0 | 85 | 115 | 09/20/2021 |

| Batch R299276 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 10 |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|---------------|
| SampID: 21081645-011BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Sulfate | | 100 | | 426 | 200.0 | 198.4 | 113.6 | 408.4 | 4.14 | 09/20/2021 | |

| Batch R299523 | | SampType: MBLK | | Units mg/L | | | | | | |
|--------------------|------|----------------|------|----------------|-------|-------------|------|-----------|------------|---------------|
| SampID: MB-R299523 | | | | | | | | | | |
| 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 | 09/27/2021 |

| Batch R299523 | | SampType: LCS | | Units mg/L | | | | | | |
|---------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: LCS-R299523 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate | | 10 | | 19 | 20.00 | 0 | 92.9 | 90 | 110 | 09/27/2021 |

| Batch R299523 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 21081645-010BMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Sulfate | | 50 | | 230 | 100.0 | 135.7 | 94.5 | 85 | 115 | 09/27/2021 |

| Batch R299523 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 10 |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|---------------|
| SampID: 21081645-010BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Sulfate | | 50 | | 243 | 100.0 | 135.7 | 107.2 | 230.1 | 5.38 | 09/27/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9036 (TOTAL)

| Batch R299021 | | 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 | 09/15/2021 | |

| Batch R299021 | | SampType: LCS | | Units mg/L | | | | | | | |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 10 | | 20 | 20.00 | 0 | 98.5 | 90 | 110 | 09/15/2021 | |

| Batch R299089 | | 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 | 09/16/2021 | |

| Batch R299089 | | 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 | 106.4 | 90 | 110 | 09/16/2021 | |

| Batch R299276 | | 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 | 09/20/2021 | |

| Batch R299276 | | SampType: LCS | | Units mg/L | | | | | | | |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 10 | | 20 | 20.00 | 0 | 98.5 | 90 | 110 | 09/20/2021 | |

| Batch R299276 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-011AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 200 | | 663 | 400.0 | 231.4 | 108.0 | 85 | 115 | 09/20/2021 | |

| Batch R299276 | | SampType: MSD | | Units mg/L | | | | | | RPD Limit: 10 | | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|--|---------------|
| SampID: 21081645-011AMSD | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Sulfate | | 200 | | 672 | 400.0 | 231.4 | 110.3 | 663.3 | 1.37 | 09/20/2021 | | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9036 (TOTAL)

| Batch R299361 | | 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 | 09/23/2021 | |

| Batch R299361 | | SampType: LCS | | Units mg/L | | | | | | | |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICV/LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 10 | | 20 | 20.00 | 0 | 99.0 | 90 | 110 | 09/23/2021 | |

| Batch R299361 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-012AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 20 | | 44 | 40.00 | 0 | 110.0 | 85 | 115 | 09/23/2021 | |

| Batch R299361 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|-------|---------------|--|
| SampID: 21081645-012AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Sulfate | | 20 | R | 39 | 40.00 | 0 | 98.2 | 43.99 | 11.31 | 09/23/2021 | |

| Batch R299523 | | 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 | 09/27/2021 | |

| Batch R299523 | | 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 | 92.9 | 90 | 110 | 09/27/2021 | |

| Batch R301070 | | SampType: MBLK | | Units mg/L | | | | | | | |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: ICB/MBLK | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 10 | | < 10 | 6.140 | 0 | 0 | -100 | 100 | 10/08/2021 | |

| Batch R301070 | | 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 | 100.4 | 90 | 110 | 10/08/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9214 (TOTAL)

| Batch R298993 | | 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 | 09/15/2021 | |

| Batch R298993 | | SampType: LCS | | Units mg/L | | | | | | | |
|---------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 0.93 | 1.000 | 0 | 93.2 | 90 | 110 | 09/15/2021 | |

| Batch R298993 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-026AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 5.25 | 2.000 | 3.104 | 107.4 | 75 | 125 | 09/15/2021 | |

| Batch R298993 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|--|
| SampID: 21081645-026AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 5.26 | 2.000 | 3.104 | 107.7 | 5.251 | 0.13 | 09/15/2021 | |

| Batch R298993 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-029AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 3.87 | 2.000 | 1.669 | 110.2 | 75 | 125 | 09/15/2021 | |

| Batch R298993 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|--|
| SampID: 21081645-029AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 3.82 | 2.000 | 1.669 | 107.5 | 3.872 | 1.38 | 09/15/2021 | |

| Batch R299066 | | 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 | 09/17/2021 | |

| Batch R299066 | | 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 | | 1.07 | 1.000 | 0 | 106.7 | 90 | 110 | 09/17/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9214 (TOTAL)

| Batch R299066 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|-------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-012AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 2.19 | 2.000 | 0.1320 | 102.8 | 75 | 125 | 09/17/2021 | |

| Batch R299066 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|-------------|-------|-------------|-------|-------------|------|---------------|--|
| SampID: 21081645-012AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 2.24 | 2.000 | 0.1320 | 105.6 | 2.188 | 2.53 | 09/17/2021 | |

| Batch R299066 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|-------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-025AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 3.38 | 2.000 | 1.259 | 105.8 | 75 | 125 | 09/17/2021 | |

| Batch R299066 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|-------------|-------|-------------|-------|-------------|------|---------------|--|
| SampID: 21081645-025AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 3.39 | 2.000 | 1.259 | 106.4 | 3.376 | 0.30 | 09/17/2021 | |

SW-846 9251 (DISSOLVED)

| Batch R299022 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-002BMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Chloride | | 2 | | 73 | 40.00 | 36.06 | 91.1 | 85 | 115 | 09/15/2021 | |

| Batch R299022 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--|
| SampID: 21081645-002BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Chloride | | 2 | | 72 | 40.00 | 36.06 | 90.0 | 72.51 | 0.62 | 09/15/2021 | |

| Batch R299022 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 21081645-011BMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Chloride | | 5 | E | 258 | 100.0 | 156.1 | 102.3 | 85 | 115 | 09/16/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9251 (DISSOLVED)

| Batch R299022 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 15 | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|---------------|------|---------------|--|
| SampID: 21081645-011BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Chloride | | 5 | E | 254 | 100.0 | 156.1 | 97.9 | 258.4 | 1.73 | 09/16/2021 | |

| Batch R299278 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-010BMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Chloride | | 1 | | 39 | 20.00 | 20.46 | 91.0 | 85 | 115 | 09/20/2021 | |

| Batch R299278 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 15 | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|---------------|------|---------------|--|
| SampID: 21081645-010BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Chloride | | 1 | | 38 | 20.00 | 20.46 | 90.1 | 38.65 | 0.44 | 09/20/2021 | |

SW-846 9251 (TOTAL)

| Batch R299022 | | 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 | 09/15/2021 | |

| Batch R299022 | | 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 | 98.6 | 90 | 110 | 09/15/2021 | |

| Batch R299090 | | 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 | 09/16/2021 | |

| Batch R299090 | | 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 | 100.4 | 90 | 110 | 09/16/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9251 (TOTAL)

| Batch R299090 | | SampType: MS | | Units mg/L | | | | | | | Date Analyzed |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: 21081645-011AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Chloride | | 5 | E | 259 | 100.0 | 167.8 | 90.9 | 85 | 115 | 09/16/2021 | |

| Batch R299090 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 15 | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|---------------|---------------|
| SampID: 21081645-011AMSD | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Chloride | | 5 | E | 263 | 100.0 | 167.8 | 95.4 | 258.7 | 1.70 | 09/16/2021 | | |

| Batch R299278 | | SampType: MBLK | | Units mg/L | | | | | | | Date Analyzed |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|---------------|
| 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 | 09/20/2021 | |

| Batch R299278 | | SampType: LCS | | Units mg/L | | | | | | | Date Analyzed |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| 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 | 09/20/2021 | |

| Batch R299278 | | SampType: MS | | Units mg/L | | | | | | | Date Analyzed |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: 21081645-012AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Chloride | | 10 | | 279 | 200.0 | 95.61 | 91.8 | 85 | 115 | 09/20/2021 | |

| Batch R299278 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 15 | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|---------------|---------------|
| SampID: 21081645-012AMSD | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | | |
| Chloride | | 10 | | 278 | 200.0 | 95.61 | 91.3 | 279.2 | 0.36 | 09/20/2021 | | |

| Batch R299362 | | SampType: MBLK | | Units mg/L | | | | | | | Date Analyzed |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|---------------|
| 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 | 09/23/2021 | |

| Batch R299362 | | SampType: LCS | | Units mg/L | | | | | | | Date Analyzed |
|-----------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| 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 | 99.7 | 90 | 110 | 09/23/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

SW-846 9251 (TOTAL)

Batch R299524 **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 | 09/27/2021 |

Batch R299524 **SampType: LCS** Units mg/L

SampID: ICB/LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|-----------|-------|-------------|------|-----------|------------|---------------|
| Chloride | * | 1 | | 20 | 20.00 | 0 | 98.8 | 90 | 110 | 09/27/2021 |

Batch R301071 **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 | 10/08/2021 |

Batch R301071 **SampType: LCS** Units mg/L

SampID: ICB/LCS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|----------|------|----|------|-----------|-------|-------------|-------|-----------|------------|---------------|
| Chloride | * | 1 | | 20 | 20.00 | 0 | 100.9 | 90 | 110 | 10/08/2021 |

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

Batch 182116 **SampType: MBLK** Units mg/L

SampID: MBLK-182116

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|-----------------|--------|-------------|------|-----------|------------|---------------|
| Boron | | 0.0200 | | < 0.0200 | 0.0090 | 0 | 0 | -100 | 100 | 09/22/2021 |
| Iron | | 0.0400 | | < 0.0400 | 0.0200 | 0 | 0 | -100 | 100 | 09/22/2021 |
| Manganese | | 0.0070 | | < 0.0070 | 0.0025 | 0 | 0 | -100 | 100 | 09/22/2021 |

Batch 182116 **SampType: LCS** Units mg/L

SampID: LCS-182116

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------------|-------|-------------|------|-----------|------------|---------------|
| Boron | | 0.0200 | | 0.458 | 0.500 | 0 | 91.5 | 85 | 115 | 09/22/2021 |
| Iron | | 0.0400 | | 1.77 | 2.00 | 0 | 88.7 | 85 | 115 | 09/22/2021 |
| Manganese | | 0.0070 | | 0.465 | 0.500 | 0 | 93.0 | 85 | 115 | 09/22/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 182116 | | SampType: LCSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|---------------------|------|----------------|------|--------------|-------|-------------|------|---------------|------|---------------|--|
| SampID: LCSD-182116 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Boron | | 0.0200 | | 0.472 | 0.500 | 0 | 94.5 | 0.458 | 3.14 | 09/22/2021 | |
| Iron | | 0.0400 | | 1.85 | 2.00 | 0 | 92.7 | 1.77 | 4.42 | 09/22/2021 | |
| Manganese | | 0.0070 | | 0.477 | 0.500 | 0 | 95.4 | 0.465 | 2.55 | 09/22/2021 | |

| Batch 182116 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|--------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-003DMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Boron | | 0.0200 | S | 11.2 | 0.500 | 11.0 | 36.9 | 75 | 125 | 09/22/2021 | |
| Iron | | 0.0400 | | 1.70 | 2.00 | 0 | 85.2 | 75 | 125 | 09/22/2021 | |
| Manganese | | 0.0070 | | 0.477 | 0.500 | 0.0183 | 91.7 | 75 | 125 | 09/22/2021 | |

| Batch 182116 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|--------------|-------|-------------|------|---------------|------|---------------|--|
| SampID: 21081645-003DMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Boron | | 0.0200 | S | 11.4 | 0.500 | 11.0 | 67.1 | 11.2 | 1.34 | 09/22/2021 | |
| Iron | | 0.0400 | | 1.74 | 2.00 | 0 | 86.9 | 1.70 | 1.92 | 09/22/2021 | |
| Manganese | | 0.0070 | | 0.487 | 0.500 | 0.0183 | 93.8 | 0.477 | 2.20 | 09/22/2021 | |

| Batch 182116 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|--------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 21081645-014DMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Boron | | 0.0200 | | 2.35 | 0.500 | 1.93 | 83.8 | 75 | 125 | 09/22/2021 | |
| Iron | | 0.0400 | | 1.98 | 2.00 | 0.220 | 88.0 | 75 | 125 | 09/22/2021 | |
| Manganese | | 0.0070 | | 0.472 | 0.500 | 0.0161 | 91.3 | 75 | 125 | 09/22/2021 | |

| Batch 182116 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|--------------|-------|-------------|------|---------------|------|---------------|--|
| SampID: 21081645-014DMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Boron | | 0.0200 | | 2.35 | 0.500 | 1.93 | 84.3 | 2.35 | 0.10 | 09/22/2021 | |
| Iron | | 0.0400 | | 1.97 | 2.00 | 0.220 | 87.5 | 1.98 | 0.51 | 09/22/2021 | |
| Manganese | | 0.0070 | | 0.471 | 0.500 | 0.0161 | 91.0 | 0.472 | 0.32 | 09/22/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

Batch 181946 **SampType: MBLK** Units mg/L

SampID: MBLK-181946

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|----------|--------|-------------|------|-----------|------------|---------------|
| Calcium | | 0.100 | | < 0.100 | 0.0350 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Iron | | 0.0400 | | < 0.0400 | 0.0200 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Iron | | 0.0400 | | < 0.0400 | 0.0200 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Magnesium | | 0.0500 | | < 0.0500 | 0.0055 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Manganese | | 0.0070 | | < 0.0070 | 0.0025 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Manganese | | 0.0070 | | < 0.0070 | 0.0025 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Potassium | | 0.100 | | < 0.100 | 0.0400 | 0 | 0 | -100 | 100 | 09/20/2021 |
| Sodium | | 0.0500 | | < 0.0500 | 0.0180 | 0 | 0 | -100 | 100 | 09/20/2021 |

Batch 181946 **SampType: LCS** Units mg/L

SampID: LCS-181946

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Calcium | | 0.100 | | 2.66 | 2.500 | 0 | 106.2 | 85 | 115 | 09/20/2021 |
| Iron | | 0.0400 | | 2.05 | 2.00 | 0 | 102.7 | 85 | 115 | 09/20/2021 |
| Iron | | 0.0400 | | 2.05 | 2.000 | 0 | 102.7 | 85 | 115 | 09/20/2021 |
| Magnesium | | 0.0500 | | 2.77 | 2.500 | 0 | 110.9 | 85 | 115 | 09/20/2021 |
| Manganese | | 0.0070 | | 0.530 | 0.5000 | 0 | 106.1 | 85 | 115 | 09/20/2021 |
| Manganese | | 0.0070 | | 0.530 | 0.500 | 0 | 106.1 | 85 | 115 | 09/20/2021 |
| Potassium | | 0.100 | | 2.58 | 2.500 | 0 | 103.2 | 85 | 115 | 09/20/2021 |
| Sodium | | 0.0500 | | 2.49 | 2.500 | 0 | 99.7 | 85 | 115 | 09/20/2021 |

Batch 181946 **SampType: MS** Units mg/L

SampID: 21081645-012CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|-------|-------------|-------|-----------|------------|---------------|
| Calcium | | 0.100 | S | 598 | 2.500 | 593.7 | 168.0 | 75 | 125 | 09/21/2021 |
| Iron | | 0.0400 | | 2.47 | 2.00 | 0.434 | 101.8 | 75 | 125 | 09/21/2021 |
| Magnesium | | 0.050 | | 2.87 | 2.500 | 0.1361 | 109.4 | 75 | 125 | 09/21/2021 |
| Manganese | | 0.0070 | | 0.537 | 0.500 | 0.0071 | 106.0 | 75 | 125 | 09/21/2021 |
| Potassium | | 0.100 | | 5.30 | 2.500 | 2.575 | 108.9 | 75 | 125 | 09/21/2021 |
| Sodium | | 0.050 | | 24.5 | 2.500 | 21.88 | 104.0 | 75 | 125 | 09/21/2021 |

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 181946 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|--------------|-------|-------------|-------|---------------|------|---------------|--|
| SampID: 21081645-012CMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Calcium | | 0.100 | S | 603 | 2.500 | 593.7 | 364.0 | 597.9 | 0.82 | 09/21/2021 | |
| Iron | | 0.0400 | | 2.42 | 2.00 | 0.434 | 99.6 | 2.47 | 1.80 | 09/21/2021 | |
| Magnesium | | 0.050 | | 2.83 | 2.500 | 0.1361 | 107.6 | 2.872 | 1.61 | 09/21/2021 | |
| Manganese | | 0.0070 | | 0.529 | 0.500 | 0.0071 | 104.4 | 0.537 | 1.46 | 09/21/2021 | |
| Potassium | | 0.100 | | 5.28 | 2.500 | 2.575 | 108.1 | 5.297 | 0.36 | 09/21/2021 | |
| Sodium | | 0.050 | | 24.7 | 2.500 | 21.88 | 113.2 | 24.48 | 0.94 | 09/21/2021 | |

| Batch 182134 | | SampType: MBLK | | Units mg/L | | | | | | | |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-182134 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Calcium | | 0.100 | | < 0.100 | 0.0350 | 0 | 0 | -100 | 100 | 09/23/2021 | |
| Iron | | 0.0400 | | < 0.0400 | 0.0200 | 0 | 0 | -100 | 100 | 09/23/2021 | |
| Magnesium | | 0.0500 | | < 0.0500 | 0.0055 | 0 | 0 | -100 | 100 | 09/23/2021 | |
| Manganese | | 0.0070 | | < 0.0070 | 0.0025 | 0 | 0 | -100 | 100 | 09/23/2021 | |
| Potassium | | 0.100 | | < 0.100 | 0.0400 | 0 | 0 | -100 | 100 | 09/23/2021 | |
| Sodium | | 0.0500 | | < 0.0500 | 0.0180 | 0 | 0 | -100 | 100 | 09/23/2021 | |

| Batch 182134 | | SampType: LCS | | Units mg/L | | | | | | | |
|--------------------|------|---------------|------|--------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: LCS-182134 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Calcium | | 0.100 | | 2.47 | 2.500 | 0 | 98.8 | 85 | 115 | 09/23/2021 | |
| Iron | | 0.0400 | | 1.93 | 2.00 | 0 | 96.3 | 85 | 115 | 09/23/2021 | |
| Magnesium | | 0.0500 | | 2.48 | 2.500 | 0 | 99.4 | 85 | 115 | 09/23/2021 | |
| Manganese | | 0.0070 | | 0.499 | 0.500 | 0 | 99.9 | 85 | 115 | 09/23/2021 | |
| Potassium | | 0.100 | | 2.54 | 2.500 | 0 | 101.8 | 85 | 115 | 09/23/2021 | |
| Sodium | | 0.0500 | | 2.46 | 2.500 | 0 | 98.2 | 85 | 115 | 09/23/2021 | |

| Batch 182134 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|-------------|-------|-------------|--------|-----------|------------|---------------|--|
| SampID: 21081645-018BMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Calcium | | 0.100 | S | 78.6 | 2.500 | 79.54 | -38.0 | 75 | 125 | 09/23/2021 | |
| Magnesium | | 0.050 | S | 31.7 | 2.500 | 30.80 | 36.3 | 75 | 125 | 09/23/2021 | |
| Potassium | | 0.100 | | 5.92 | 2.500 | 3.652 | 90.5 | 75 | 125 | 09/23/2021 | |
| Sodium | | 0.050 | S | 221 | 2.500 | 227.2 | -258.0 | 75 | 125 | 09/23/2021 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 182134 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | Date Analyzed |
|--------------------------|------|---------------|------|-------------|-------|-------------|--------|---------------|------|---------------|---------------|
| SampID: 21081645-018BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Calcium | | 0.100 | S | 77.9 | 2.500 | 79.54 | -65.2 | 78.59 | 0.87 | 09/23/2021 | |
| Magnesium | | 0.050 | S | 31.4 | 2.500 | 30.80 | 25.0 | 31.71 | 0.89 | 09/23/2021 | |
| Potassium | | 0.100 | | 5.89 | 2.500 | 3.652 | 89.3 | 5.915 | 0.50 | 09/23/2021 | |
| Sodium | | 0.050 | S | 220 | 2.500 | 227.2 | -279.6 | 220.8 | 0.24 | 09/23/2021 | |

| Batch 182141 | | SampType: MBLK | | Units mg/L | | | | RPD Limit: 20 | | Date Analyzed |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|---------------|------------|---------------|
| SampID: MBLK-182141 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium | | 0.100 | | < 0.100 | 0.0350 | 0 | 0 | -100 | 100 | 09/23/2021 |
| Iron | | 0.0400 | | < 0.0400 | 0.0200 | 0 | 0 | -100 | 100 | 09/23/2021 |
| Magnesium | | 0.0500 | | < 0.0500 | 0.0055 | 0 | 0 | -100 | 100 | 09/23/2021 |
| Manganese | | 0.0070 | | < 0.0070 | 0.0025 | 0 | 0 | -100 | 100 | 09/23/2021 |
| Potassium | | 0.100 | | < 0.100 | 0.0400 | 0 | 0 | -100 | 100 | 09/23/2021 |
| Sodium | | 0.0500 | | < 0.0500 | 0.0180 | 0 | 0 | -100 | 100 | 09/23/2021 |

| Batch 182141 | | SampType: LCS | | Units mg/L | | | | RPD Limit: 20 | | Date Analyzed |
|--------------------|------|---------------|------|--------------|-------|-------------|-------|---------------|------------|---------------|
| SampID: LCS-182141 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium | | 0.100 | | 2.58 | 2.500 | 0 | 103.4 | 85 | 115 | 09/23/2021 |
| Iron | | 0.0400 | | 1.98 | 2.00 | 0 | 99.2 | 85 | 115 | 09/23/2021 |
| Magnesium | | 0.0500 | | 2.71 | 2.500 | 0 | 108.6 | 85 | 115 | 09/23/2021 |
| Manganese | | 0.0070 | | 0.516 | 0.500 | 0 | 103.2 | 85 | 115 | 09/23/2021 |
| Potassium | | 0.100 | | 2.63 | 2.500 | 0 | 105.1 | 85 | 115 | 09/23/2021 |
| Sodium | | 0.0500 | | 2.37 | 2.500 | 0 | 94.9 | 85 | 115 | 09/23/2021 |

| Batch 182141 | | SampType: MS | | Units mg/L | | | | RPD Limit: 20 | | Date Analyzed |
|-------------------------|------|--------------|------|--------------|-------|-------------|-------|---------------|------------|---------------|
| SampID: 21081645-013CMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium | | 0.100 | | 27.6 | 2.500 | 25.09 | 101.6 | 75 | 125 | 09/23/2021 |
| Iron | | 0.0400 | | 2.74 | 2.00 | 0.837 | 95.0 | 75 | 125 | 09/23/2021 |
| Magnesium | | 0.050 | | 6.74 | 2.500 | 4.382 | 94.5 | 75 | 125 | 09/23/2021 |
| Manganese | | 0.0070 | | 0.512 | 0.500 | 0.0101 | 100.4 | 75 | 125 | 09/23/2021 |
| Potassium | | 0.100 | | 7.98 | 2.500 | 5.525 | 98.3 | 75 | 125 | 09/23/2021 |
| Sodium | | 0.050 | | 76.5 | 2.500 | 74.30 | 88.8 | 75 | 125 | 09/23/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 182141 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|--------------|-------|-------------|-------|---------------|------|---------------|--|
| SampID: 21081645-013CMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Calcium | | 0.100 | S | 28.4 | 2.500 | 25.09 | 132.0 | 27.63 | 2.71 | 09/23/2021 | |
| Iron | | 0.0400 | | 2.79 | 2.00 | 0.837 | 97.7 | 2.74 | 1.92 | 09/23/2021 | |
| Magnesium | | 0.050 | | 6.90 | 2.500 | 4.382 | 100.7 | 6.744 | 2.29 | 09/23/2021 | |
| Manganese | | 0.0070 | | 0.517 | 0.500 | 0.0101 | 101.5 | 0.512 | 1.05 | 09/23/2021 | |
| Potassium | | 0.100 | | 8.16 | 2.500 | 5.525 | 105.3 | 7.982 | 2.17 | 09/23/2021 | |
| Sodium | | 0.050 | S | 79.0 | 2.500 | 74.30 | 189.6 | 76.52 | 3.24 | 09/23/2021 | |

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

| Batch 181947 | | SampType: MBLK | | Units mg/L | | | | | | Date Analyzed |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-181947 | | | | | | | | | | |
| 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 | 09/21/2021 |
| Arsenic | | 0.0010 | | < 0.0010 | 0.0004 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Barium | | 0.0010 | | < 0.0010 | 0.0007 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Boron | | 0.0250 | | < 0.0250 | 0.0092 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Chromium | | 0.0015 | | < 0.0015 | 0.0007 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Cobalt | | 0.0010 | | < 0.0010 | 0.0001 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Lead | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Lithium | * | 0.0030 | | < 0.0030 | 0.0015 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Molybdenum | | 0.0015 | | < 0.0015 | 0.0006 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Selenium | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 09/21/2021 |
| Thallium | | 0.0020 | | < 0.0020 | 0.0010 | 0 | 0 | -100 | 100 | 09/23/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

Batch 181947 SampType: LCS Units mg/L
 SampID: LCS-181947

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.528 | 0.500 | 0 | 105.7 | 80 | 120 | 09/21/2021 |
| Arsenic | | 0.0010 | | 0.519 | 0.500 | 0 | 103.7 | 80 | 120 | 09/21/2021 |
| Barium | | 0.0010 | | 2.20 | 2.00 | 0 | 110.2 | 80 | 120 | 09/21/2021 |
| Boron | | 0.0250 | | 0.460 | 0.500 | 0 | 92.0 | 80 | 120 | 09/21/2021 |
| Chromium | | 0.0015 | | 0.193 | 0.200 | 0 | 96.6 | 80 | 120 | 09/21/2021 |
| Cobalt | | 0.0010 | | 0.496 | 0.500 | 0 | 99.2 | 80 | 120 | 09/21/2021 |
| Lead | | 0.0010 | | 0.534 | 0.500 | 0 | 106.9 | 80 | 120 | 09/21/2021 |
| Lithium | * | 0.0030 | | 0.471 | 0.500 | 0 | 94.1 | 80 | 120 | 09/21/2021 |
| Molybdenum | | 0.0015 | | 0.511 | 0.500 | 0 | 102.1 | 80 | 120 | 09/21/2021 |
| Selenium | | 0.0010 | | 0.490 | 0.500 | 0 | 98.0 | 80 | 120 | 09/21/2021 |
| Thallium | | 0.0020 | | 0.257 | 0.250 | 0 | 102.8 | 80 | 120 | 09/23/2021 |

Batch 181947 SampType: MS Units mg/L
 SampID: 21081645-012CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.470 | 0.500 | 0.0008 | 93.8 | 75 | 125 | 09/30/2021 |
| Arsenic | | 0.0010 | | 0.524 | 0.500 | 0.0007 | 104.6 | 75 | 125 | 09/30/2021 |
| Barium | | 0.0010 | | 3.14 | 2.00 | 1.04 | 104.9 | 75 | 125 | 09/30/2021 |
| Boron | | 0.0250 | | 0.484 | 0.500 | 0.0177 | 93.3 | 75 | 125 | 09/21/2021 |
| Chromium | | 0.0015 | | 0.227 | 0.200 | 0.0271 | 100.0 | 75 | 125 | 09/21/2021 |
| Cobalt | | 0.0010 | | 0.520 | 0.500 | 0.0035 | 103.4 | 75 | 125 | 09/21/2021 |
| Lead | | 0.0010 | | 0.512 | 0.500 | 0.0052 | 101.3 | 75 | 125 | 09/21/2021 |
| Lithium | * | 0.0030 | | 0.548 | 0.500 | 0.0584 | 97.9 | 75 | 125 | 09/21/2021 |
| Molybdenum | | 0.0015 | | 0.520 | 0.500 | 0.0086 | 102.3 | 75 | 125 | 09/30/2021 |
| Selenium | | 0.0010 | | 0.492 | 0.500 | 0 | 98.5 | 75 | 125 | 09/30/2021 |
| Thallium | | 0.0020 | | 0.263 | 0.250 | 0 | 105.1 | 75 | 125 | 09/24/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 181947 | | SampType: MSD | | Units mg/L | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|--------------|-------|-------------|---------------|-------------|------|---------------|
| SampID: 21081645-012CMSD | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
| Antimony | | 0.0010 | | 0.469 | 0.500 | 0.0008 | 93.6 | 0.470 | 0.18 | 09/30/2021 |
| Arsenic | | 0.0010 | | 0.518 | 0.500 | 0.0007 | 103.4 | 0.524 | 1.19 | 09/30/2021 |
| Barium | | 0.0010 | | 3.10 | 2.00 | 1.04 | 102.9 | 3.14 | 1.30 | 09/30/2021 |
| Boron | | 0.0250 | | 0.494 | 0.500 | 0.0177 | 95.2 | 0.484 | 1.85 | 09/21/2021 |
| Chromium | | 0.0015 | | 0.223 | 0.200 | 0.0271 | 97.9 | 0.227 | 1.90 | 09/21/2021 |
| Cobalt | | 0.0010 | | 0.501 | 0.500 | 0.0035 | 99.5 | 0.520 | 3.78 | 09/21/2021 |
| Lead | | 0.0010 | | 0.516 | 0.500 | 0.0052 | 102.2 | 0.512 | 0.85 | 09/21/2021 |
| Lithium | * | 0.0030 | | 0.548 | 0.500 | 0.0584 | 97.9 | 0.548 | 0.02 | 09/21/2021 |
| Molybdenum | | 0.0015 | | 0.515 | 0.500 | 0.0086 | 101.2 | 0.520 | 1.03 | 09/30/2021 |
| Selenium | | 0.0010 | | 0.491 | 0.500 | 0 | 98.2 | 0.492 | 0.30 | 09/30/2021 |
| Thallium | | 0.0020 | | 0.264 | 0.250 | 0 | 105.7 | 0.263 | 0.53 | 09/24/2021 |

| Batch 182135 | | SampType: MBLK | | Units mg/L | | | | | | |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-182135 | | | | | | | | | | |
| 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 | 09/28/2021 |
| Arsenic | | 0.0010 | | < 0.0010 | 0.0004 | 0 | 0 | -100 | 100 | 09/25/2021 |
| Barium | | 0.0010 | | < 0.0010 | 0.0007 | 0 | 0 | -100 | 100 | 09/28/2021 |
| Boron | | 0.0250 | | < 0.0250 | 0.0092 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Chromium | | 0.0015 | | < 0.0015 | 0.0007 | 0 | 0 | -100 | 100 | 09/28/2021 |
| Cobalt | | 0.0010 | | < 0.0010 | 0.0001 | 0 | 0 | -100 | 100 | 09/28/2021 |
| Lead | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 09/28/2021 |
| Lithium | * | 0.0030 | | < 0.0030 | 0.0015 | 0 | 0 | -100 | 100 | 09/28/2021 |
| Molybdenum | | 0.0015 | | < 0.0015 | 0.0006 | 0 | 0 | -100 | 100 | 09/28/2021 |
| Selenium | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 09/25/2021 |
| Thallium | | 0.0020 | | < 0.0020 | 0.0010 | 0 | 0 | -100 | 100 | 09/28/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

Batch 182135 SampType: LCS Units mg/L

SampID: LCS-182135

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.502 | 0.500 | 0 | 100.3 | 80 | 120 | 09/28/2021 |
| Arsenic | | 0.0010 | | 0.526 | 0.500 | 0 | 105.1 | 80 | 120 | 09/27/2021 |
| Barium | | 0.0010 | | 2.11 | 2.00 | 0 | 105.3 | 80 | 120 | 09/28/2021 |
| Boron | | 0.0250 | | 0.523 | 0.500 | 0 | 104.6 | 80 | 120 | 09/27/2021 |
| Chromium | | 0.0015 | | 0.206 | 0.200 | 0 | 102.8 | 80 | 120 | 09/28/2021 |
| Lead | | 0.0010 | | 0.513 | 0.500 | 0 | 102.7 | 80 | 120 | 09/28/2021 |
| Lithium | * | 0.0030 | | 0.528 | 0.500 | 0 | 105.5 | 80 | 120 | 09/28/2021 |
| Molybdenum | | 0.0015 | | 0.534 | 0.500 | 0 | 106.8 | 80 | 120 | 09/28/2021 |
| Selenium | | 0.0010 | | 0.501 | 0.500 | 0 | 100.2 | 80 | 120 | 09/27/2021 |
| Thallium | | 0.0020 | | 0.255 | 0.250 | 0 | 102.0 | 80 | 120 | 09/28/2021 |

Batch 182135 SampType: MS Units mg/L

SampID: 21081645-018BMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.505 | 0.500 | 0 | 101.1 | 75 | 125 | 09/28/2021 |
| Arsenic | | 0.0010 | | 0.533 | 0.500 | 0.0019 | 106.2 | 75 | 125 | 09/28/2021 |
| Barium | | 0.0010 | | 2.18 | 2.00 | 0.0691 | 105.6 | 75 | 125 | 09/28/2021 |
| Boron | | 0.0250 | | 1.17 | 0.500 | 0.647 | 105.4 | 75 | 125 | 09/28/2021 |
| Chromium | | 0.0015 | | 0.203 | 0.200 | 0 | 101.4 | 75 | 125 | 09/28/2021 |
| Cobalt | | 0.0010 | | 0.521 | 0.500 | 0.0004 | 104.0 | 75 | 125 | 09/28/2021 |
| Lead | | 0.0010 | | 0.519 | 0.500 | 0 | 103.8 | 75 | 125 | 09/28/2021 |
| Lithium | * | 0.0030 | | 0.568 | 0.500 | 0.0247 | 108.6 | 75 | 125 | 09/28/2021 |
| Molybdenum | | 0.0015 | | 0.555 | 0.500 | 0.0060 | 109.8 | 75 | 125 | 09/28/2021 |
| Selenium | | 0.0010 | | 0.487 | 0.500 | 0 | 97.4 | 75 | 125 | 09/28/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 182135 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | Date Analyzed |
|--------------------------|------|---------------|------|--------------|-------|-------------|-------|---------------|------|---------------|---------------|
| SampID: 21081645-018BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Antimony | | 0.0010 | | 0.497 | 0.500 | 0 | 99.5 | 0.505 | 1.60 | 09/28/2021 | |
| Arsenic | | 0.0010 | | 0.530 | 0.500 | 0.0019 | 105.7 | 0.533 | 0.46 | 09/28/2021 | |
| Barium | | 0.0010 | | 2.15 | 2.00 | 0.0691 | 103.9 | 2.18 | 1.55 | 09/28/2021 | |
| Boron | | 0.0250 | | 1.16 | 0.500 | 0.647 | 103.5 | 1.17 | 0.81 | 09/28/2021 | |
| Chromium | | 0.0015 | | 0.202 | 0.200 | 0 | 101.0 | 0.203 | 0.36 | 09/28/2021 | |
| Cobalt | | 0.0010 | | 0.514 | 0.500 | 0.0004 | 102.7 | 0.521 | 1.29 | 09/28/2021 | |
| Lead | | 0.0010 | | 0.520 | 0.500 | 0 | 104.0 | 0.519 | 0.25 | 09/28/2021 | |
| Lithium | * | 0.0030 | | 0.555 | 0.500 | 0.0247 | 106.1 | 0.568 | 2.26 | 09/28/2021 | |
| Molybdenum | | 0.0015 | | 0.548 | 0.500 | 0.0060 | 108.5 | 0.555 | 1.19 | 09/28/2021 | |
| Selenium | | 0.0010 | | 0.486 | 0.500 | 0 | 97.2 | 0.487 | 0.21 | 09/28/2021 | |

| Batch 182143 | | SampType: MBLK | | Units mg/L | | | | RPD Limit: 20 | | Date Analyzed |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|---------------|------------|---------------|
| SampID: MBLK-182143 | | | | | | | | | | |
| 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 | 09/27/2021 |
| Arsenic | | 0.0010 | | < 0.0010 | 0.0004 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Barium | | 0.0010 | | < 0.0010 | 0.0007 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Boron | | 0.0250 | | < 0.0250 | 0.0092 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Chromium | | 0.0015 | | < 0.0015 | 0.0007 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Cobalt | | 0.0010 | | < 0.0010 | 0.0001 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Lead | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Lithium | * | 0.0030 | | < 0.0030 | 0.0015 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Molybdenum | | 0.0015 | | < 0.0015 | 0.0006 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Selenium | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 09/27/2021 |
| Thallium | | 0.0020 | | < 0.0020 | 0.0010 | 0 | 0 | -100 | 100 | 09/27/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

Batch 182143 SampType: LCS Units mg/L
 SampID: LCS-182143

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.503 | 0.500 | 0 | 100.6 | 80 | 120 | 09/27/2021 |
| Arsenic | | 0.0010 | | 0.541 | 0.500 | 0 | 108.2 | 80 | 120 | 09/27/2021 |
| Barium | | 0.0010 | | 2.17 | 2.00 | 0 | 108.5 | 80 | 120 | 09/27/2021 |
| Boron | | 0.0250 | | 0.518 | 0.500 | 0 | 103.6 | 80 | 120 | 09/27/2021 |
| Chromium | | 0.0015 | | 0.216 | 0.200 | 0 | 108.2 | 80 | 120 | 09/27/2021 |
| Cobalt | | 0.0010 | | 0.553 | 0.500 | 0 | 110.6 | 80 | 120 | 09/27/2021 |
| Lead | | 0.0010 | | 0.535 | 0.500 | 0 | 107.0 | 80 | 120 | 09/27/2021 |
| Lithium | * | 0.0030 | | 0.537 | 0.500 | 0 | 107.4 | 80 | 120 | 09/27/2021 |
| Molybdenum | | 0.0015 | | 0.558 | 0.500 | 0 | 111.6 | 80 | 120 | 09/27/2021 |
| Selenium | | 0.0010 | | 0.503 | 0.500 | 0 | 100.7 | 80 | 120 | 09/27/2021 |
| Thallium | | 0.0020 | | 0.263 | 0.250 | 0 | 105.3 | 80 | 120 | 09/27/2021 |

Batch 182143 SampType: MS Units mg/L
 SampID: 21081645-013CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------------|-------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.499 | 0.500 | 0.0026 | 99.2 | 75 | 125 | 09/27/2021 |
| Arsenic | | 0.0010 | | 0.527 | 0.500 | 0.0007 | 105.3 | 75 | 125 | 09/27/2021 |
| Barium | | 0.0010 | | 2.28 | 2.00 | 0.179 | 104.9 | 75 | 125 | 09/27/2021 |
| Boron | | 0.0250 | | 1.12 | 0.500 | 0.622 | 100.0 | 75 | 125 | 09/27/2021 |
| Chromium | | 0.0015 | | 0.207 | 0.200 | 0.0021 | 102.2 | 75 | 125 | 09/27/2021 |
| Cobalt | | 0.0010 | | 0.529 | 0.500 | 0.0003 | 105.7 | 75 | 125 | 09/27/2021 |
| Lead | | 0.0010 | | 0.528 | 0.500 | 0.0027 | 105.0 | 75 | 125 | 09/27/2021 |
| Lithium | * | 0.0030 | | 0.611 | 0.500 | 0.0834 | 105.5 | 75 | 125 | 09/27/2021 |
| Molybdenum | | 0.0015 | | 0.549 | 0.500 | 0.0043 | 108.9 | 75 | 125 | 09/27/2021 |
| Selenium | | 0.0010 | | 0.470 | 0.500 | 0 | 94.0 | 75 | 125 | 09/27/2021 |
| Thallium | | 0.0020 | | 0.260 | 0.250 | 0.0012 | 103.5 | 75 | 125 | 09/27/2021 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Vistra Energy

Work Order: 21081645

Client Project: Baldwin Groundwater Q3 2021

Report Date: 10-Feb-22

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

| Batch 182143 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | |
|--------------------------|------|---------------|------|--------------|-------|-------------|-------|---------------|------|---------------|
| SampID: 21081645-013CMSD | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
| Antimony | | 0.0010 | | 0.504 | 0.500 | 0.0026 | 100.3 | 0.499 | 1.09 | 09/28/2021 |
| Arsenic | | 0.0010 | | 0.531 | 0.500 | 0.0007 | 106.0 | 0.527 | 0.72 | 09/28/2021 |
| Barium | | 0.0010 | | 2.31 | 2.00 | 0.179 | 106.4 | 2.28 | 1.25 | 09/28/2021 |
| Boron | | 0.0250 | | 1.16 | 0.500 | 0.622 | 108.5 | 1.12 | 3.71 | 09/28/2021 |
| Chromium | | 0.0015 | | 0.209 | 0.200 | 0.0021 | 103.7 | 0.207 | 1.35 | 09/28/2021 |
| Cobalt | | 0.0010 | | 0.534 | 0.500 | 0.0003 | 106.8 | 0.529 | 1.04 | 09/28/2021 |
| Lead | | 0.0010 | | 0.528 | 0.500 | 0.0027 | 105.0 | 0.528 | 0.02 | 09/28/2021 |
| Lithium | * | 0.0030 | | 0.625 | 0.500 | 0.0834 | 108.4 | 0.611 | 2.36 | 09/28/2021 |
| Molybdenum | | 0.0015 | | 0.553 | 0.500 | 0.0043 | 109.7 | 0.549 | 0.72 | 09/28/2021 |
| Selenium | | 0.0010 | | 0.473 | 0.500 | 0 | 94.6 | 0.470 | 0.59 | 09/28/2021 |
| Thallium | | 0.0020 | | 0.262 | 0.250 | 0.0012 | 104.3 | 0.260 | 0.81 | 09/28/2021 |



Receiving Check List

<http://www.teklabinc.com/>

Client: **Vistra Energy**

Work Order: 21081645

Client Project: **Baldwin Groundwater Q3 2021**

Report Date: 10-Feb-22

Carrier: Joseph Riley

Received By: PWR

Completed by:

Reviewed by:

On:

On:

16-Sep-21

17-Sep-21

Ellie Hopkins

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--------------------------------------|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 3.0 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input checked="" type="checkbox"/> | Lab <input type="checkbox"/> | NA <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Any No responses must be detailed below or on the COC.

150, 151, 152, 252, 304, 350, 352, 375, 377, 383, 384, 391, 104DR, 104SR, 304 DUP and Field Blank were received on 09/14/2021 at 1830 (on ice 1.2C - LTG# 1). - ERH 9/15/21

pH strip #77366 - ERH 9/15/21 and PR 9/16/21

Additional nitric acid (78366) was needed in 304, 375, 383, 384, 391, 104SR, and 304 DUP upon arrival at the laboratory. - ERH 9/15/21 and PR 9/16/21

The limited volume of 154 was split, filtered, and preserved with nitric acid (78366) upon arrival at the laboratory. - PR/EAH 9/16/21

306 was filtered and preserved with nitric acid (78366) for the dissolved parameters upon arrival at the laboratory. - ERH/ehurley - 9/17/2021 7:46:43 AM

CHAIN OF CUSTODY

Pg 1 of 3 Workorder # 21081645

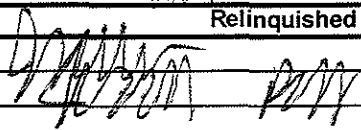
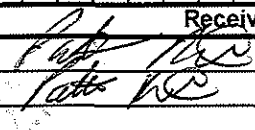
TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| Client: <u>Vistra Energy</u> Address: <u>1500 Eastport Plaza Drive</u> City/State/Zip: <u>Collinsville, IL 62234</u> Contact: <u>Brian Voelker</u> Phone: <u>(217) 412-6605</u> Email: <u>brian.voelker@vistraenergy.com</u> Fax: | | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>32</u> °C LTG# <u>1</u> Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>77366</u> FOR LAB USE ONLY LAB NOTES: <u>Added HNO3 (75%) 9-16-21</u> <u>Filter in LAB split 154 PR 9-16-21</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Client Comments: Metals selection per program requirements. 6 program reports: IEPA, 601, 605, 605 Closure, 605 Operating, and NPDES. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NAME/NUMBER <u>Baldwin Groundwater Q3 2021</u> | | SAMPLE COLLECTOR'S NAME <u>J. RILEY J. WILSON</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge) | | BILLING INSTRUCTIONS <u>PO# 1054243</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Lab Use Only</th> <th style="width: 15%;">Sample ID</th> <th style="width: 20%;">Date/Time Sampled</th> <th style="width: 15%;">Matrix</th> <th colspan="10">INDICATE ANALYSIS REQUESTED</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> <th>Field Tests</th> <th>Bicab/Carb</th> <th>Cl, SO4, F-</th> <th>TDS</th> <th>Nitrate</th> <th>Diss. Cl, SO4</th> <th>Diss. TDS</th> <th>Metals</th> <th>Diss. Metals</th> </tr> </thead> <tbody> <tr> <td><u>1081145-001</u></td> <td><u>150</u></td> <td><u>9/14/21 1525</u></td> <td><u>Groundwater</u></td> <td><u>2</u></td> <td><u>2</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><u>002</u></td> <td><u>151</u></td> <td><u>9/14/21 1340</u></td> <td><u>Groundwater</u></td> <td><u>2</u></td> <td><u>2</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> 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Cl, SO4 | Diss. TDS | Metals | Diss. Metals | <u>1081145-001</u> | <u>150</u> | <u>9/14/21 1525</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>002</u> | <u>151</u> | <u>9/14/21 1340</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>003</u> | <u>152</u> | <u>9/14/21 1099</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>004</u> | <u>153</u> | <u>1032 9/16/21 710</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>005</u> | <u>154</u> | <u>DRY 9/16/21 1200</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>006</u> | <u>155</u> | <u>9/16/21 1110</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>007</u> | <u>156</u> | <u>9/18/21 1417</u> | <u>Groundwater</u> | | | | | | | | | | <input checked="" type="checkbox"/> | | | | | | | | | | <u>008</u> | <u>157</u> | <u>9/15/21 1215</u> | <u>Groundwater</u> | | | | | | | | | | <input checked="" type="checkbox"/> | | | | | | | | | | <u>009</u> | <u>252</u> | <u>9/19/21 1132</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>010</u> | <u>253</u> | <u>9/16/21 1000</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>011</u> | <u>304</u> | <u>9/16/21 0948</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Relinquished By: <u>[Signature]</u> Date/Time: <u>9/14/21 1830</u> <u>[Signature]</u> Date/Time: <u>9/16/21 1350</u> | | Received By: <u>[Signature]</u> Date/Time: <u>9/14/21 1800</u> <u>[Signature]</u> Date/Time: <u>9/16/21 1330</u> | |
| Lab Use Only | Sample ID | Date/Time Sampled | Matrix | INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | UNP | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | Field Tests | Bicab/Carb | Cl, SO4, F- | TDS | Nitrate | Diss. Cl, SO4 | Diss. TDS | Metals | Diss. Metals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>1081145-001</u> | <u>150</u> | <u>9/14/21 1525</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>002</u> | <u>151</u> | <u>9/14/21 1340</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>003</u> | <u>152</u> | <u>9/14/21 1099</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>004</u> | <u>153</u> | <u>1032 9/16/21 710</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>005</u> | <u>154</u> | <u>DRY 9/16/21 1200</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>006</u> | <u>155</u> | <u>9/16/21 1110</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>007</u> | <u>156</u> | <u>9/18/21 1417</u> | <u>Groundwater</u> | | | | | | | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>008</u> | <u>157</u> | <u>9/15/21 1215</u> | <u>Groundwater</u> | | | | | | | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>009</u> | <u>252</u> | <u>9/19/21 1132</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>010</u> | <u>253</u> | <u>9/16/21 1000</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>011</u> | <u>304</u> | <u>9/16/21 0948</u> | <u>Groundwater</u> | <u>2</u> | <u>2</u> | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

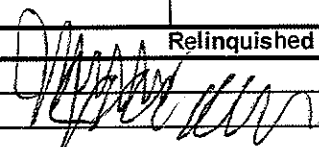
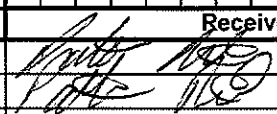
| | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|---|-------------|--|------|--|-------|-----|------|--------|-----|-------|-------------|-------------|-------------|-----|---------|---------------|-----------|--------|--------------|
| Client: <u>Vistra Energy</u> Address: <u>1500 Eastport Plaza Drive</u> City/State/Zip: <u>Collinsville, IL 62234</u> Contact: <u>Brian Voelker</u> Phone: <u>(217) 412-6605</u> Email: <u>brian.voelker@vistraenergy.com</u> Fax: _____ | | | | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>3.0 °C</u> LTG# <u>1</u> Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>77366</u> FOR LAB USE ONLY LAB NOTES: <u>(Added HNO3 (28366) PR 9/16)</u> | | | | | | | | | | | | | | | | | |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | Client Comments: Metals selection per program requirements. 6 program reports: IEPA, 601, 605, 605 Closure, 605 Operating, and NPDES. | | | | | | | | | | | | | | | | | |
| PROJECT NAME/NUMBER <u>Baldwin Groundwater Q3 2021</u> | | SAMPLE COLLECTOR'S NAME _____ | | # and Type of Containers UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other | | INDICATE ANALYSIS REQUESTED Field Tests Bicarb/Carb Cl, SO4, F- TDS Nitrate Diss. Cl, SO4 Diss. TDS Metals Diss. Metals | | | | | | | | | | | | | | | |
| RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge) | | | | BILLING INSTRUCTIONS _____ | | | | | | | | | | | | | | | | | |
| Lab Use Only | Sample ID | Date/Time Sampled | Matrix | UNP | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | Field Tests | Bicarb/Carb | Cl, SO4, F- | TDS | Nitrate | Diss. Cl, SO4 | Diss. TDS | Metals | Diss. Metals |
| 21081645-012 | 306 | 9/16/21 1231 | Groundwater | 2 | 2 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 013 | 350 | 9/14/21 1353 | Groundwater | 2 | 2 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 014 | 352 | 9/14/21 1144 | Groundwater | 2 | 2 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 015 | 355 | 9/16/21 1129 | Groundwater | 2 | 2 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 016 | 356 | 9/15/21 1406 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 017 | 366 | 9/15/21 0905 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 018 | 369 | 9/15/21 1241 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 019 | 370 | 9/15/21 1135 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 020 | 375 | 9/14/21 1447 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 021 | 377 | 9/14/21 1404 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 022 | 382 | 9/15/21 1026 | Groundwater | 1 | 1 | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Relinquished By  | | Date/Time 9/14/21 1830 9/16/21 1350 | | Received By  | | Date/Time 9/16/21 1830 9/16/21 1350 | | | | | | | | | | | | | | | |

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 3 of 3 Workorder # 21081645

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|--|---|--|--|--|---|---|--|--|---|---|---|---|---|---|---|--|--|
| Client: <u>Vistra Energy</u> Address: <u>1500 Eastport Plaza Drive</u> City/State/Zip: <u>Collinsville, IL 62234</u> Contact: <u>Brian Voelker</u> Phone: <u>(217) 412-6605</u> Email: <u>brian.voelker@vistraenergy.com</u> Fax: _____ | | | | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>30</u> °C LTG# <u>1</u> Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>77366</u> FOR LAB USE ONLY LAB NOTES: <u>Added HNO3 (78366)</u> <u>PK-9-16-21</u> | | | | | | | | | | | | | | | | | |
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | Client Comments: Metals selection per program requirements. 6 program reports: IEPA, 601, 605, 605 Closure, 605 Operating, and NPDES. | | | | | | | | | | | | | | | | | |
| PROJECT NAME/NUMBER <u>Baldwin Groundwater Q3 2021</u> | | SAMPLE COLLECTOR'S NAME _____ | | # and Type of Containers UNP HNO3 NaOH H2SO4 HCL MeOH NAHSO4 TSP Other | | INDICATE ANALYSIS REQUESTED Field Tests Bicalb/Carb Cl, SO4, F- TDS Nitrate Diss. Cl, SO4 Diss. TDS Metals Diss. Metals | | | | | | | | | | | | | | | |
| RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge) | | BILLING INSTRUCTIONS _____ | | Matrix UNP HNO3 NaOH H2SO4 HCL MeOH NAHSO4 TSP Other | | Matrix Field Tests Bicalb/Carb Cl, SO4, F- TDS Nitrate Diss. Cl, SO4 Diss. TDS Metals Diss. Metals | | | | | | | | | | | | | | | |
| Lab Use Only <u>21081645-023</u> <u>024</u> <u>025</u> <u>026</u> <u>027</u> <u>028</u> <u>029</u> <u>030</u> <u>031</u> | Sample ID <u>383</u> <u>384</u> <u>390</u> <u>391</u> <u>104DR</u> <u>104SR</u> <u>304 DUP</u> <u>BA_601_TPZ-164_Source Water</u> <u>Field Blank</u> | Date/Time Sampled <u>9/13/21 1624</u> <u>9/13/21 1555</u> <u>9/13/21 1521</u> <u>9/14/21 1652</u> <u>9/14/21 0932</u> <u>9/14/21 0915</u> <u>9/14/21 0846</u> <u>9/14/21 1015</u> | Matrix Groundwater Groundwater Groundwater Groundwater Groundwater Groundwater Groundwater Groundwater Groundwater Groundwater | UNP 1 1 1 1 2 2 2 2 1 2 2 | HNO3 1 1 1 1 1 1 1 1 1 1 1 | NaOH 1 1 1 1 1 1 1 1 1 1 1 | H2SO4 1 1 1 1 1 1 1 1 1 1 1 | HCL 1 1 1 1 1 1 1 1 1 1 1 | MeOH 1 1 1 1 1 1 1 1 1 1 1 | NAHSO4 1 1 1 1 1 1 1 1 1 1 1 | TSP 1 1 1 1 1 1 1 1 1 1 1 | Other 1 1 1 1 1 1 1 1 1 1 1 | Field Tests 1 1 1 1 1 1 1 1 1 1 1 1 | Bicalb/Carb 1 1 1 1 1 1 1 1 1 1 1 1 | Cl, SO4, F- 1 1 1 1 1 1 1 1 1 1 1 1 | TDS 1 1 1 1 1 1 1 1 1 1 1 1 | Nitrate 1 1 1 1 1 1 1 1 1 1 1 1 | Diss. Cl, SO4 1 1 1 1 1 1 1 1 1 1 1 1 | Diss. TDS 1 1 1 1 1 1 1 1 1 1 1 1 | Metals 1 1 1 1 1 1 1 1 1 1 1 1 | Diss. Metals 1 1 1 1 1 1 1 1 1 1 1 1 |
| Relinquished By  | | Date/Time <u>9/14/21 1530</u> <u>9/16/21 1350</u> | | Received By  | | Date/Time <u>9/16/21 1350</u> <u>9/16/21 1350</u> | | | | | | | | | | | | | | | |

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TEKLAD INC. 5445 Horseshoe Lake Road, Collierville, TN 37034 Phone (931) 344-1004 Fax (931) 344-1005

CHAIN OF CUSTODY

Page 1 of 2 Worksheet # 27021545

Client: Vistra Energy
 Address: 1500 Eastport Plaza Drive
 City/State/Zip: Collierville, TN 37234
 Contact: Brian Voelker
 Phone: (615) 412-8605
 Email: brian.voelker@vistraenergy.com Fax:

Sample type: ICE BULKICE NO ICE L.C. to L.C.
 Method: LAB FIELD
 LAB NOTES: 773000 HNO₃ (783000) added to 304, 375, 383, 384, 391, 1045R, 304 D2P EH 9/15/21

Are these samples known to be involved in litigation? Yes No
 Are these samples known to be hazardous? Yes No
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comments section. Yes No

Client Comments:
 Method: Standard per program requirements
 Program: ICPA, 621, 605, 605 Current, 605 Operating, and NPDES

PROJECT NAME/NUMBER: Baldwin Groundwater Q3 2021
 SAMPLE COLLECTOR'S NAME:

RESULTS REQUESTED: Standard 1-2 Day (100% Surcharge) Other
 BILLING INSTRUCTIONS: PIA 1154243

| # and Type of Containers | | INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------|-----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY | LAB USE ONLY |
| ICPA | 621 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 | 605 |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | | | |

| Lab Use Only | Sample ID | Date/Time Sampled | Matrix |
|--------------|-----------|-------------------|-------------|
| 150 | 150 | 9/14/21 1825 | Groundwater |
| 151 | 151 | 9/14/21 1840 | Groundwater |
| 152 | 152 | 9/14/21 0849 | Groundwater |
| 153 | 153 | | Groundwater |
| 154 | 154 | | Groundwater |
| 155 | 155 | | Groundwater |
| 156 | 156 | | Groundwater |
| 157 | 157 | | Groundwater |
| 252 | 252 | 9/19/21 1132 | Groundwater |
| 253 | 253 | | Groundwater |
| 304 | 304 | 9/14/21 0946 | Groundwater |

Relinquished By: [Signature] Date/Time: 9/14/21 1830

Received By: [Signature] Date/Time: 9/14/21 1830

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklad.com for terms and conditions.

EH
9/15/21

CHAIN OF CUSTODY

Page 2 of 3 Worksheet #

11081545

LAB INC. 5445 Horseshoe Lane Road, Collinsville, IL 62234 Phone (618) 344-1024 Fax (618) 344-1005

Client: Veolia Energy
 Address: 1505 Eastport Plaza Drive
 City/State/Zip: Collinsville, IL 62234
 Contact: Brian Voelker Phone: (217) 412-6655
 Email: brian.voelker@veoliamenergy.com Fax:

Sample in ICE BLUE ICE NO ICE °C 60 LTSM
 Preserved in LAB FIELD **FOR LAB USE ONLY**
 LAB NOTES

Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
 Are these samples known to be hazardous? Yes No
 Are there any regulated reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. Yes No

Client Comments:
 Metals selection per program requirements.
 Program reports: EPA 821, 805, 805 Closure, 805 Operating, and NPDES

PROJECT NAME/NUMBER: Baldwin Groundwater Q3 2021
 SAMPLE COLLECTOR'S NAME:

| E and Type of Containers | INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------------|--------|-------|---------|-----|---------|----------|------|-----|----|--------|-----|----------|---------|----------|----------|----------|----------|
| | LEAD | COBALT | NIODI | ARSENIC | CHL | AMMONIA | NITROGEN | TRIP | ORP | PH | CONDUC | TOC | CHLORIDE | AMMONIA | CHLORIDE | CHLORIDE | CHLORIDE | CHLORIDE |
| 2 | 2 | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | |

RESULTS REQUESTED: Standard 1-2 Day (100% Exchange) 3 Day (50% Exchange)
 BILLING INSTRUCTIONS:

| Lab Use Only | Sample ID | Date/Time Sampled | Matrix |
|--------------|-----------|-------------------|-------------|
| 306 | 306 | | Groundwater |
| 350 | 350 | 9/19/21 1533 | Groundwater |
| 352 | 352 | 9/19/21 1144 | Groundwater |
| 355 | 355 | | Groundwater |
| 356 | 356 | | Groundwater |
| 366 | 366 | | Groundwater |
| 369 | 369 | | Groundwater |
| 370 | 370 | | Groundwater |
| 375 | 375 | 9/19/21 1447 | Groundwater |
| 377 | 377 | 9/19/21 1431 | Groundwater |
| 382 | 382 | | Groundwater |

| Received By | Date/Time |
|--------------------|--------------|
| <i>[Signature]</i> | 9/19/21 1830 |

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.labinc.com for terms and conditions.

Oct. Rev. C Aug 2020

CHAIN OF CUSTODY

Pg. 1 of 1 Worksheet # 71021545

TEST LAB, INC. 5445 Horseshoe Lake Road, Collinsville, IL 62224 Phone (618) 344-1004 Fax (618) 344-1005

Client: Visira Energy
 Address: 1500 Eastport Plaza Drive
 City/State/Zip: Collinsville IL 62234
 Contact: Brian Vorkler Phone: (217) 412-6625
 Email: brian.vorkler@visiraenergy.com Fax:

Sample in: ICE BLUE ICE NO ICE 2.8 °C LTOW
 Preserved in: LAB FIELD **FOR LAB USE ONLY**
 LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply. Yes No
 Are these samples known to be hazardous? Yes No
 Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. Yes No

Client Comments:
 Method selection per program requirements.
 If program reports: RCRA, 801, 802, 803, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

PROJECT NAME/NUMBER: Baldwin Groundwater Q3 2021
 SAMPLE COLLECTOR'S NAME:

RESULTS REQUESTED: Standard 1-2 Day (100% Surcharge) Other
 BILLING INSTRUCTIONS: 1-2 Day (100% Surcharge) 3 Day (10% Surcharge)

| # and Type of Containers | | INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | | | | |
|---------------------------------|-----|-----------------------------|---------|---------|----------|--------|-------------|------------------|------|------|--------|--------------|--------|----------------|--------------|-----------|------|
| LAB USE ONLY | | ASBESTOS | BARITUM | BENZENE | CHLORIDE | COPPER | CRUDEST OIL | DISSOLVED SOLIDS | IRON | LEAD | NICKEL | PERMANGANATE | SILICA | SOLUBLE SOLIDS | TOTAL SOLIDS | TURBIDITY | ZINC |
| 383 | 1 1 | | | | | | | | | | | | | | | | |
| 384 | 1 1 | | | | | | | | | | | | | | | | |
| 390 | 1 1 | | | | | | | | | | | | | | | | |
| 391 | 1 1 | | | | | | | | | | | | | | | | |
| 104DR | 2 2 | | | | | | | | | | | | | | | | |
| 104SR | 2 2 | | | | | | | | | | | | | | | | |
| 304 DUP | 2 2 | | | | | | | | | | | | | | | | |
| SA, 801, 802, 804, Source Water | 1 1 | | | | | | | | | | | | | | | | |
| Field Blank | 2 2 | | | | | | | | | | | | | | | | |

Relinquished By: [Signature] Date/Time: 9/14/21 8:30
 Received By: [Signature] Date/Time: 9/14/21 18:30

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.tetrahinc.com for terms and conditions. C/C Rev C Aug 2020

October 12, 2021

Steve Wiskes
Ramboll
234 W. Florida St.
5th Floor
Milwaukee, WI 53204
TEL: (414) 837-3614
FAX:



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

RE: Baldwin Groundwater Q3 2021

WorkOrder: 21081646

Dear Steve Wiskes:

TEKLAB, INC received 16 samples on 9/16/2021 1:50:00 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
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

This reporting package includes the following:

| | |
|----------------------|----------|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 18 |
| Dates Report | 19 |
| Receiving Check List | 20 |
| Chain of Custody | Appended |

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

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)

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

Cooler Receipt Temp: 1.8 °C

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

BA_601_TPZ-164_Source Water was not collected; the location was not accessible. EAH 9/17/21

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

This report contains CCR 605 data. EAH 10/12/21

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

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|--------------|-------------|---------------|--------------|-----------------|--------------|
| Illinois | IEPA | 100226 | NELAP | 1/31/2022 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002 | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2022 | Collinsville |
| Oklahoma | ODEQ | 9978 | NELAP | 8/31/2022 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2022 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2021 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2022 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2021 | Collinsville |
| Missouri | MDNR | 930 | | 1/31/2022 | Collinsville |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-001
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 304
Collection Date: 09/14/2021 9:48

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-002
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 306
Collection Date: 09/16/2021 12:31

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-003
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 350
Collection Date: 09/14/2021 15:53

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-005
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 366
Collection Date: 09/15/2021 9:05

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-008
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 375
Collection Date: 09/14/2021 14:47

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-009
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 377
Collection Date: 09/14/2021 14:04

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-011
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 383
Collection Date: 09/13/2021 16:24

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-012
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 384
Collection Date: 09/13/2021 16:55

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-013
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 390
Collection Date: 09/15/2021 8:21

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-014
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 391
Collection Date: 09/14/2021 16:52

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2021
Lab ID: 21081646-015
Matrix: GROUNDWATER

Work Order: 21081646
Report Date: 12-Oct-21
Client Sample ID: 304 DUP
Collection Date: 09/14/2021 9:48

| 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 | 09/30/2021 0:00 | R300895 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 09/30/2021 0:00 | R300895 |



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---------------|------------------|-------------|-----------|------------------|
| 21081646-001 | 304 | Groundwater | 1 | 09/14/2021 9:48 |
| 21081646-002 | 306 | Groundwater | 1 | 09/16/2021 12:31 |
| 21081646-003 | 350 | Groundwater | 1 | 09/14/2021 15:53 |
| 21081646-005 | 366 | Groundwater | 1 | 09/15/2021 9:05 |
| 21081646-008 | 375 | Groundwater | 1 | 09/14/2021 14:47 |
| 21081646-009 | 377 | Groundwater | 1 | 09/14/2021 14:04 |
| 21081646-011 | 383 | Groundwater | 1 | 09/13/2021 16:24 |
| 21081646-012 | 384 | Groundwater | 1 | 09/13/2021 16:55 |
| 21081646-013 | 390 | Groundwater | 1 | 09/15/2021 8:21 |
| 21081646-014 | 391 | Groundwater | 1 | 09/14/2021 16:52 |
| 21081646-015 | 304 DUP | Groundwater | 1 | 09/14/2021 9:48 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------------------------|------------------|------------------|------------------|----------------|--------------------|
| Test Name | | | | | |
| 21081646-001A | 304 | 09/14/2021 9:48 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-002A | 306 | 09/16/2021 12:31 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-003A | 350 | 09/14/2021 15:53 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-005A | 366 | 09/15/2021 9:05 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-008A | 375 | 09/14/2021 14:47 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-009A | 377 | 09/14/2021 14:04 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-011A | 383 | 09/13/2021 16:24 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-012A | 384 | 09/13/2021 16:55 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-013A | 390 | 09/15/2021 8:21 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-014A | 391 | 09/14/2021 16:52 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |
| 21081646-015A | 304 DUP | 09/14/2021 9:48 | 09/16/2021 13:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 09/30/2021 0:00 | | | |



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 21081646

Client Project: Baldwin Groundwater Q3 2021

Report Date: 12-Oct-21

Carrier: Joseph Riley

Received By: PWR

Completed by:

Reviewed by:

On:

17-Sep-21

Ellie Hopkins

17-Sep-21

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 1.8 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input type="checkbox"/> | Lab <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Any No responses must be detailed below or on the COC.

304, 350, 375, 377, 383, 384, 391, and 304 DUP on 09/14/2021 at 1830 by Patrick Riley (on ice 2.8C - LTG# 1). ERH 9/17/21

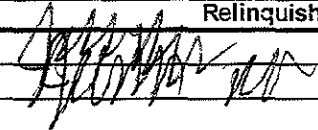
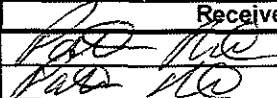
pH strip #77366 - ERH 9/15/21 and PR 9/16/21

Additional nitric acid (78366) was needed in 304, 375, 383, 384, and 304 DUP upon arrival at the laboratory. - ERH 9/15/21 and PR 9/16/21

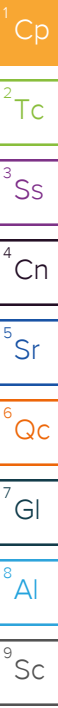
CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 21081646

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

| Client: <u>Ramboll / Vistra Energy</u> Address: <u>234 W. Florida St.</u> City/State/Zip: <u>Milwaukee, WI 53204</u> Contact: <u>Steve Wiskes</u> Phone: <u>(414) 837-3614</u> Email: <u>steve.wiskes@ramboll.com</u> Fax: | | | | Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>1.8</u> °C LTG# <u>1</u> Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD <u>77366</u> FOR LAB USE ONLY LAB NOTES: <u>pk 9/16/21</u> <u>Added (FIN03179366) PK 9/16</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|---|--------------------|---|---------------------|---|---------------------|--------------------|------------|------------|---------------------|--------------------|------------|------------|---------------------|--------------------|-------------|------------|---------------------|--------------------|------------|------------|---------------------|--------------------|------------|------------|---------------------|--------------------|------------|------------|---------------------|--------------------|------------|------------|---------------------|--------------------|------------|------------|---------------------|--------------------|------------|------------|-----------------------------|--------------------|------------|------------|---------------------|--------------------|--|--|--|--|--|--|--|
| Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | Client Comments: Subcontract to Pace-National. Two programs reports: CCR 601 and CCR 605 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NAME/NUMBER <u>Baldwin Groundwater Q3 2021</u> | | SAMPLE COLLECTOR'S NAME <u>J. RILEY J. RILSON</u> | | # and Type of Containers <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> <th>Radium 226</th> <th>Radium 228</th> <th>Combined Ra</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> | | UNP | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | Radium 226 | Radium 228 | Combined Ra | | | | | | | | | | | | | | | | | | | | | | | | | | INDICATE ANALYSIS REQUESTED | | | | | | | | | | | | |
| UNP | HNO3 | NaOH | H2SO4 | HCL | MeOH | NaHSO4 | TSP | Other | Radium 226 | Radium 228 | Combined Ra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge) | | BILLING INSTRUCTIONS <u>Vistra PO# 1054243</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Lab Use Only</th> <th>Sample ID</th> <th>Date/Time Sampled</th> <th>Matrix</th> </tr> </thead> <tbody> <tr><td><u>21081646-001</u></td><td><u>304</u></td><td><u>9/14/21 0948</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>002</u></td><td><u>306</u></td><td><u>9/16/21 1237</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>003</u></td><td><u>350</u></td><td><u>9/14/21 1553</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>004</u></td><td><u>356</u></td><td><u>9/15/21 1406</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>005</u></td><td><u>366</u></td><td><u>9/15/21 0905</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>006</u></td><td><u>369</u></td><td><u>9/15/21 1241</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>007</u></td><td><u>370</u></td><td><u>9/15/21 1135</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>008</u></td><td><u>375</u></td><td><u>9/14/21 1947</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>009</u></td><td><u>377</u></td><td><u>9/14/21 1904</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>010</u></td><td><u>382</u></td><td><u>9/15/21 1026</u></td><td><u>Groundwater</u></td></tr> <tr><td><u>011</u></td><td><u>383</u></td><td><u>9/15/21 1627</u></td><td><u>Groundwater</u></td></tr> </tbody> </table> | Lab Use Only | Sample ID | Date/Time Sampled | Matrix | <u>21081646-001</u> | <u>304</u> | <u>9/14/21 0948</u> | <u>Groundwater</u> | <u>002</u> | <u>306</u> | <u>9/16/21 1237</u> | <u>Groundwater</u> | <u>003</u> | <u>350</u> | <u>9/14/21 1553</u> | <u>Groundwater</u> | <u>004</u> | <u>356</u> | <u>9/15/21 1406</u> | <u>Groundwater</u> | <u>005</u> | <u>366</u> | <u>9/15/21 0905</u> | <u>Groundwater</u> | <u>006</u> | <u>369</u> | <u>9/15/21 1241</u> | <u>Groundwater</u> | <u>007</u> | <u>370</u> | <u>9/15/21 1135</u> | <u>Groundwater</u> | <u>008</u> | <u>375</u> | <u>9/14/21 1947</u> | <u>Groundwater</u> | <u>009</u> | <u>377</u> | <u>9/14/21 1904</u> | <u>Groundwater</u> | <u>010</u> | <u>382</u> | <u>9/15/21 1026</u> | <u>Groundwater</u> | <u>011</u> | <u>383</u> | <u>9/15/21 1627</u> | <u>Groundwater</u> | | | | | | | |
| Lab Use Only | Sample ID | Date/Time Sampled | Matrix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>21081646-001</u> | <u>304</u> | <u>9/14/21 0948</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>002</u> | <u>306</u> | <u>9/16/21 1237</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>003</u> | <u>350</u> | <u>9/14/21 1553</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>004</u> | <u>356</u> | <u>9/15/21 1406</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>005</u> | <u>366</u> | <u>9/15/21 0905</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>006</u> | <u>369</u> | <u>9/15/21 1241</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>007</u> | <u>370</u> | <u>9/15/21 1135</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>008</u> | <u>375</u> | <u>9/14/21 1947</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>009</u> | <u>377</u> | <u>9/14/21 1904</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>010</u> | <u>382</u> | <u>9/15/21 1026</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>011</u> | <u>383</u> | <u>9/15/21 1627</u> | <u>Groundwater</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By  | | Date/Time <u>9/14/21 1830</u> <u>9/16/21 1330</u> | | Received By  | | Date/Time <u>9/16/21 1350</u> <u>9/16/21 1350</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions



TEKLAB, Inc.

Sample Delivery Group: L1406345
Samples Received: 09/21/2021
Project Number: 21081646
Description:

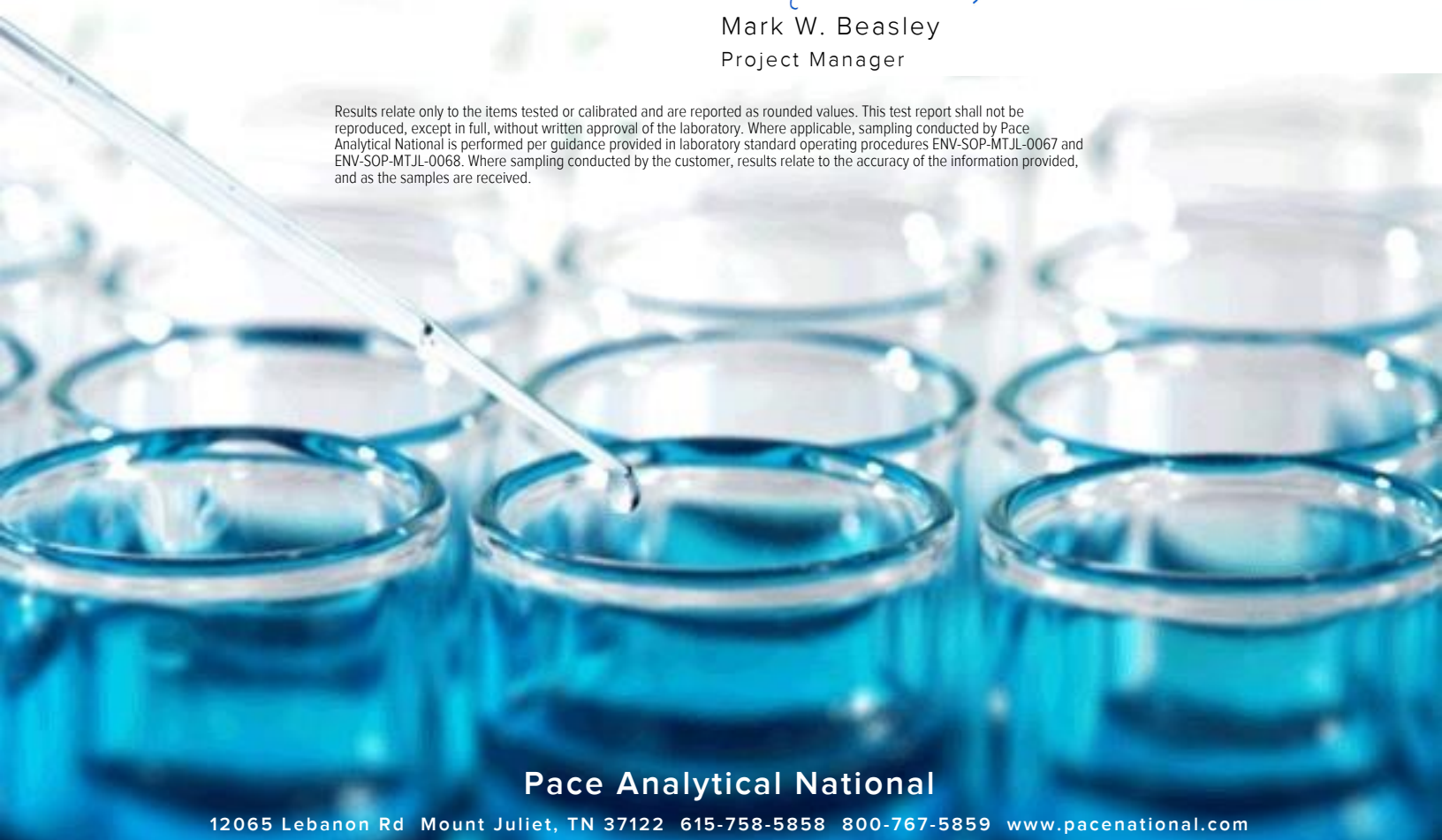
Report To: Elizabeth Hurley
5445 Horseshoe Lake Road
Collinsville, IL 62234

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.

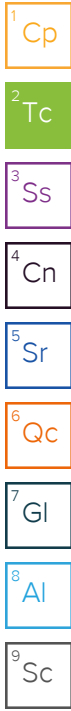


Pace Analytical National

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

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SAMPLE SUMMARY

21081646-001 L1406345-01 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/14/21 09:48
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

21081646-002 L1406345-02 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/16/21 12:31
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-003 L1406345-03 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/14/21 15:53
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-004 L1406345-04 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/15/21 14:06
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-005 L1406345-05 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/15/21 09:05
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-006 L1406345-06 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/15/21 12:41
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-007 L1406345-07 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/15/21 11:35
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

21081646-008 L1406345-08 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/14/21 14:47
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

21081646-009 L1406345-09 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/14/21 14:04
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-010 L1406345-10 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/15/21 10:26
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-011 L1406345-11 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/13/21 16:24
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-012 L1406345-12 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/13/21 16:55
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-013 L1406345-13 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/15/21 08:21
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

21081646-014 L1406345-14 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/14/21 16:52
09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

21081646-015 L1406345-15 Non-Potable Water

Collected by:
 Collected date/time: 09/14/21 09:58
 Received date/time: 09/21/21 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method Calculation | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1747254 | 1 | 09/30/21 10:55 | 10/01/21 23:09 | RGT | Mt. Juliet, TN |

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

CASE NARRATIVE

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



Mark W. Beasley
Project Manager

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 | 0.472 | J | 0.326 | 0.611 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 106 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 95.3 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.744 | J | 0.589 | 0.932 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.272 | J | 0.263 | 0.321 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 90.5 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

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 | 1.73 | | 0.305 | 0.527 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 106 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 96.5 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 8.20 | | 1.43 | 0.888 | 10/01/2021 23:09 | WG1747254 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 6.48 | | 1.12 | 0.361 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 96.6 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

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 | -0.231 | <u>U</u> | 0.318 | 0.617 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 105 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 106 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.940 | | 0.756 | 0.889 | 10/01/2021 23:09 | WG1747254 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.940 | | 0.438 | 0.272 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 93.3 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.0405 | <u>U</u> | 0.312 | 0.598 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 107 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 105 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.336 | <u>J</u> | 0.586 | 0.873 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.336 | | 0.274 | 0.275 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 92.7 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

- 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 | 0.423 | J | 0.351 | 0.661 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 99.4 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 95.2 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.478 | J | 0.551 | 1.02 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0558 | U | 0.200 | 0.359 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 92.4 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.15 | | 0.318 | 0.57 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 96.3 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 106 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.28 | | 0.490 | 0.809 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.131 | J | 0.172 | 0.239 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 89.2 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -1.18 | <u>U</u> | 0.392 | 0.782 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 95.8 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 93.9 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.248 | <u>U</u> | 0.624 | 1.05 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.248 | <u>J</u> | 0.232 | 0.264 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 92.8 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

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 | 0.132 | <u>U</u> | 0.366 | 0.698 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 90.1 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 98.9 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.132 | <u>U</u> | 0.413 | 0.912 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0130 | <u>U</u> | 0.0466 | 0.214 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 96.0 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.715 | | 0.330 | 0.61 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 95.9 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 94.7 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.715 | J | 0.501 | 1.01 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0717 | U | 0.171 | 0.4 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 99.6 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.337 | <u>U</u> | 0.423 | 0.803 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 103 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 95.9 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.921 | <u>J</u> | 0.723 | 0.975 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.584 | | 0.300 | 0.172 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 105 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

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 | 0.854 | | 0.319 | 0.585 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 97.8 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 102 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.968 | | 0.458 | 0.759 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.114 | J | 0.139 | 0.174 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 105 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.06 | | 0.331 | 0.6 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 90.5 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 100 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.15 | | 0.490 | 0.854 | 10/01/2021 23:09 | WG1747254 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0945 | <u>U</u> | 0.159 | 0.254 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 105 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

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 | 0.906 | | 0.339 | 0.621 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 110 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 93.4 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.08 | | 0.546 | 0.905 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.170 | J | 0.207 | 0.284 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 104 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 1.01 | | 0.338 | 0.616 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 89.6 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 98.6 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.32 | | 0.602 | 0.896 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.313 | | 0.264 | 0.28 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 103 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.291 | <u>U</u> | 0.301 | 0.588 | 09/30/2021 12:25 | WG1743819 |
| (T) Barium | 99.4 | | | 62.0-143 | 09/30/2021 12:25 | WG1743819 |
| (T) Yttrium | 97.5 | | | 79.0-136 | 09/30/2021 12:25 | WG1743819 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0191 | <u>U</u> | 0.497 | 0.954 | 10/01/2021 23:09 | WG1747254 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0191 | <u>U</u> | 0.196 | 0.366 | 10/01/2021 23:09 | WG1747254 |
| (T) Barium-133 | 105 | | | 30.0-143 | 10/01/2021 23:09 | WG1747254 |

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3711278-1 09/30/21 12:25

| Analyte | MB Result pCi/l | MB Qualifier | MB MDA pCi/l |
|-------------|--------------------|--------------|-----------------|
| Radium-228 | 0.0196 | <u>U</u> | 0.440 |
| (T) Barium | 104 | | |
| (T) Yttrium | 96.4 | | |

L1400301-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1400301-07 09/30/21 12:25 • (DUP) R3711278-5 09/30/21 12:25

| Analyte | Original Result pCi/l | DUP Result pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|---------------------|----------|--------------|---------|---------------|------------------------|---------------|
| Radium-228 | 0.778 | -0.796 | 1 | 200 | 1.69 | <u>U</u> | 20 | 3 |
| (T) Barium | 109 | 104 | | | | | | |
| (T) Yttrium | 92.7 | 98.1 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3711278-2 09/30/21 12:25

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.03 | 101 | 80.0-120 | |
| (T) Barium | | | 94.8 | | |
| (T) Yttrium | | | 101 | | |

L1400258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1400258-01 09/30/21 12:25 • (MS) R3711278-3 09/30/21 12:25 • (MSD) R3711278-4 09/30/21 12:25

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 16.7 | 0.567 | 21.0 | 19.5 | 122 | 113 | 1 | 70.0-130 | | | 7.22 | | 20 |
| (T) Barium | | 105 | | | 145 | 129 | | | <u>C1</u> | | | | |
| (T) Yttrium | | 98.6 | | | 104 | 104 | | | | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3712672-1 10/01/21 23:09

| Analyte | MB Result pCi/l | MB Qualifier | MB MDA pCi/l |
|----------------|--------------------|--------------|-----------------|
| Radium-226 | -0.00409 | <u>U</u> | 0.0868 |
| (T) Barium-133 | 95.1 | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1409188-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1409188-03 10/01/21 23:09 • (DUP) R3712672-5 10/01/21 23:09

| Analyte | Original Result pCi/l | DUP Result pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits | DUP RER Limit |
|----------------|--------------------------|---------------------|----------|--------------|---------|---------------|-------------------|---------------|
| Radium-226 | 0.0752 | -0.0400 | 1 | 200 | 0.744 | <u>U</u> | 20 | 3 |
| (T) Barium-133 | 105 | 90.1 | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3712672-2 10/01/21 23:09

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|----------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-226 | 5.02 | 4.85 | 96.7 | 80.0-120 | |
| (T) Barium-133 | | | 92.7 | | |

L1406345-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1406345-01 10/01/21 23:09 • (MS) R3712672-3 10/01/21 23:09 • (MSD) R3712672-4 10/01/21 23:09

| 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 | 20.1 | 0.272 | 20.0 | 17.2 | 98.3 | 84.2 | 1 | 75.0-125 | | | 15.3 | | 20 |
| (T) Barium-133 | | 90.5 | | | 85.3 | 98.3 | | | | | | | |

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

| Qualifier | Description |
|-----------|---|
| C1 | Tracer recovery limits have been exceeded; values are outside upper control limits. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| U | Below Detectable Limits: Indicates that the analyte was not detected. |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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: D. Wilson J. Riley QC Level:

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 22/228 per methods specified for Vistra/Ramboll projects.
IL site
Batch QC is required for all analyses requested.

Project#

Contact: Email:
Requested Due Date: Billing/PO:

Any changes to analysis/methods must be approved by Teklab, Inc.
Phone:

11406345

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.

| Lab Use | Sample ID | Sample Date/Time | Preservative | Matrix | Ra226/228 | | | | | | | | | | | | | | |
|---------|----------------|------------------|--------------|-------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| -01 | 21081646 - 001 | 9/14/21 0948 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -02 | 21081646 - 002 | 9/16/21 1231 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -03 | 21081646 - 003 | 9/14/21 1553 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -04 | 21081646 - 004 | 9/15/21 1406 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -05 | 21081646 - 005 | 9/15/21 0905 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -06 | 21081646 - 006 | 9/15/21 1241 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -07 | 21081646 - 007 | 9/15/21 1135 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -08 | 21081646 - 008 | 9/14/21 1447 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -09 | 21081646 - 009 | 9/14/21 1404 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -10 | 21081646 - 010 | 9/15/21 1026 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -11 | 21081646 - 011 | 9/13/21 1624 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| *Relinquished By | Date/Time | Received By | Date/Time |
|----------------------|---------------------|--------------------|---------------------|
| <i>allie stivers</i> | <i>9/17/21 1600</i> | | |
| | | | |
| | | <i>[Signature]</i> | <i>9/20/21 9:30</i> |

April 25, 2022

Eric Bauer
Ramboll
234 W. Florida St.
5th Floor
Milwaukee, WI 53204
TEL: (414) 837-3614
FAX:



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

RE: Baldwin Q1 Groundwater

WorkOrder: 22031028

Dear Eric Bauer:

TEKLAB, INC received 17 samples on 3/30/2022 7:30:00 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
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

This reporting package includes the following:

| | |
|----------------------|----------|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 19 |
| Dates Report | 20 |
| Receiving Check List | 21 |
| Chain of Custody | Appended |

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

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)

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)

Client: Ramboll
Client Project: Baldwin Q1 Groundwater

Work Order: 22031028
Report Date: 25-Apr-22

Cooler Receipt Temp: 4.0 °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.

Baldwin Bottom Fly Ash Ponds CCR 605 data are included in this report. EAH 4/25/22

Locations

Collinsville

Address 5445 Horseshoe Lake Road
 Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
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

Springfield

Address 3920 Pintail Dr
 Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
 Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
 Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|-----------|------|---------|-------|-----------|--------------|
| Illinois | IEPA | 100226 | NELAP | 1/31/2023 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 4/30/2022 | Collinsville |
| Louisiana | LDEQ | 05002 | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2022 | Collinsville |
| Oklahoma | ODEQ | 9978 | NELAP | 8/31/2022 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2023 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2023 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2023 | Collinsville |
| Missouri | MDNR | 930 | | 1/31/2025 | Collinsville |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-001
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-304
Collection Date: 03/28/2022 11:03

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-002
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-304 Duplicate
Collection Date: 03/28/2022 11:03

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-003
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-306
Collection Date: 03/29/2022 16:28

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-004
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-350
Collection Date: 03/28/2022 15:27

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-006
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-366
Collection Date: 03/28/2022 10:18

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-009
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-375
Collection Date: 03/28/2022 14:25

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-010
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-377
Collection Date: 03/28/2022 13:57

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-012
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-383
Collection Date: 03/29/2022 15:42

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-013
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-384
Collection Date: 03/29/2022 15:05

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-014
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-390
Collection Date: 03/29/2022 11:12

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-015
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: MW-391
Collection Date: 03/29/2022 9:44

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-017
Matrix: AQUEOUS

Work Order: 22031028
Report Date: 25-Apr-22
Client Sample ID: Field Blank
Collection Date: 03/29/2022 12:55

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---------------|------------------|-------------|-----------|------------------|
| 22031028-001 | MW-304 | Groundwater | 1 | 03/28/2022 11:03 |
| 22031028-002 | MW-304 Duplicate | Groundwater | 1 | 03/28/2022 11:03 |
| 22031028-003 | MW-306 | Groundwater | 1 | 03/29/2022 16:28 |
| 22031028-004 | MW-350 | Groundwater | 1 | 03/28/2022 15:27 |
| 22031028-006 | MW-366 | Groundwater | 1 | 03/28/2022 10:18 |
| 22031028-009 | MW-375 | Groundwater | 1 | 03/28/2022 14:25 |
| 22031028-010 | MW-377 | Groundwater | 1 | 03/28/2022 13:57 |
| 22031028-012 | MW-383 | Groundwater | 1 | 03/29/2022 15:42 |
| 22031028-013 | MW-384 | Groundwater | 1 | 03/29/2022 15:05 |
| 22031028-014 | MW-390 | Groundwater | 1 | 03/29/2022 11:12 |
| 22031028-015 | MW-391 | Groundwater | 1 | 03/29/2022 9:44 |
| 22031028-017 | Field Blank | Aqueous | 1 | 03/29/2022 12:55 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------------------------|------------------|------------------|-----------------|----------------|--------------------|
| Test Name | | | | | |
| 22031028-001A | MW-304 | 03/28/2022 11:03 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-002A | MW-304 Duplicate | 03/28/2022 11:03 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-003A | MW-306 | 03/29/2022 16:28 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-004A | MW-350 | 03/28/2022 15:27 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-006A | MW-366 | 03/28/2022 10:18 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-009A | MW-375 | 03/28/2022 14:25 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-010A | MW-377 | 03/28/2022 13:57 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-012A | MW-383 | 03/29/2022 15:42 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-013A | MW-384 | 03/29/2022 15:05 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-014A | MW-390 | 03/29/2022 11:12 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-015A | MW-391 | 03/29/2022 9:44 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-017A | Field Blank | 03/29/2022 12:55 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 25-Apr-22

Carrier: Joe Riley

Received By: PWR

Completed by: *Mary E. Kemp*
On: 30-Mar-22
Mary E. Kemp

Reviewed by: *Elizabeth A. Hurley*
On: 30-Mar-22
Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 4.0 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input type="checkbox"/> | Lab <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Any No responses must be detailed below or on the COC.

pH strip #78011. - MKemp - 3/30/2022 1:13:12 PM

Additional nitric acid (80810) was needed in MW-304, MW-304DUP, MW-356, MW-370, MW-375, MW-382, MW-383, MW-390 and MW-391 upon arrival at the laboratory. - MKemp - 3/30/2022 1:13:13 PM

CHAIN OF CUSTODY

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: Ramboll / Vistra
Address: 234 W. Florida St.
City/State/Zip: Milwaukee, WI 53204
Contact: Eric Bauer Phone: (414) 837-3607
Email: eric.bauer@ramboll.com Fax:

Samples on: ICE BLUE ICE NO ICE °C LTG#
Preserved in: LAB FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: Yes No
Are these samples known to be hazardous? Yes No
Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: Yes No

Client Comments:
Subcontract to Pace-National.
Two program reports.

PROJECT NAME/NUMBER: Baldwin Q1 Groundwater
SAMPLE COLLECTOR'S NAME:

RESULTS REQUESTED: Standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge)
BILLING INSTRUCTIONS: Vistra PO#s

Table with columns for # and Type of Containers (UNP, HNO3, NaOH, H2SO4, HCL, MeOH, NaHSO4, TSP, Other) and INDICATE ANALYSIS REQUESTED. Includes handwritten checkmarks in the 'Other' column for Ra226/228.

Table with columns: Lab Use Only, Sample ID, Date/Time Sampled, Matrix. Contains handwritten entries for samples MW-383, MW-384, MW-390, MW-391, TPZ-164, and Field Blank.

Relinquished By: [Signature] Date/Time: 03/30/22 0730
Received By: [Signature] Date/Time: 3/30/22 0730

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

TEKLAB, Inc.

Sample Delivery Group: L1477565
Samples Received: 04/01/2022
Project Number: 22031028
Description:

Report To: Elizabeth Hurley
5445 Horseshoe Lake Road
Collinsville, IL 62234

Entire Report Reviewed By:



Mark W. Beasley
Project Manager

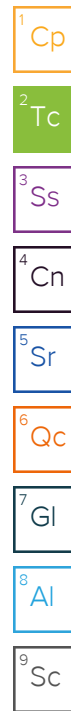
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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.

Pace Analytical National

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

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| Sc: Sample Chain of Custody | 29 |

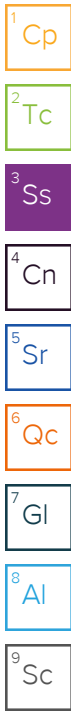


SAMPLE SUMMARY

22031028-001A L1477565-01 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 11:03 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |



22031028-002A L1477565-02 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 11:03 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

22031028-003A L1477565-03 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 16:28 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

22031028-004A L1477565-04 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 15:27 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-005A L1477565-05 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 14:10 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-006A L1477565-06 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 10:18 Received date/time 04/01/22 09:30

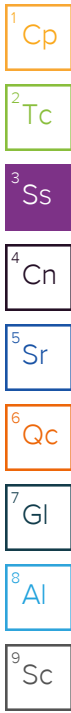
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

22031028-007A L1477565-07 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 13:30 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |



22031028-008A L1477565-08 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 12:49 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-009A L1477565-09 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 14:25 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-010A L1477565-10 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 13:57 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-011A L1477565-11 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 12:13 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-012A L1477565-12 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 15:42 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

22031028-013A L1477565-13 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 15:05 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

22031028-014A L1477565-14 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 11:12 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

22031028-015A L1477565-15 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 09:44 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

7 Gl

8 Al

9 Sc

22031028-016A L1477565-16 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 14:46 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-017A L1477565-17 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 12:55 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

CASE NARRATIVE

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



Mark W. Beasley
Project Manager

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 | 0.939 | | 0.305 | 0.544 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 89.5 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 108 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.968 | | 0.344 | 0.628 | 04/14/2022 11:45 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0288 | <u>U</u> | 0.159 | 0.314 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 96.4 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.375 | J | 0.305 | 0.567 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 84.7 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 103 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.481 | J | 0.347 | 0.622 | 04/14/2022 11:45 | WG1846342 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.107 | J | 0.165 | 0.255 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 100 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

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 | 0.534 | J | 0.299 | 0.549 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 84.4 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 106 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.566 | J | 0.331 | 0.615 | 04/14/2022 11:45 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0323 | U | 0.141 | 0.277 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

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 | 0.869 | | 0.302 | 0.541 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 94.8 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 106 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.71 | | 0.488 | 0.575 | 04/14/2022 11:45 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.843 | | 0.383 | 0.195 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 100 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.375 | J | 0.296 | 0.565 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 91.3 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 100 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.422 | J | 0.321 | 0.610 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0472 | U | 0.123 | 0.229 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 97.5 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.491 | J | 0.288 | 0.546 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 84.6 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 104 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.567 | J | 0.312 | 0.575 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0767 | J | 0.119 | 0.181 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 95.1 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.0598 | <u>U</u> | 0.308 | 0.603 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 92.2 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 99.1 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.323 | <u>J</u> | 0.402 | 0.661 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.323 | | 0.258 | 0.270 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 104 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.285 | J | 0.300 | 0.578 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 88.7 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 94.4 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.883 | | 0.427 | 0.620 | 04/14/2022 16:25 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.598 | | 0.304 | 0.223 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 99.4 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.248 | J | 0.244 | 0.481 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 102 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.8 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.248 | U | 0.250 | 0.529 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0186 | U | 0.0542 | 0.221 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

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 | 0.637 | | 0.278 | 0.533 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 96.4 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.7 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.702 | | 0.307 | 0.579 | 04/15/2022 12:10 | WG1846342 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0657 | <u>U</u> | 0.130 | 0.227 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

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 | 0.206 | <u>U</u> | 0.394 | 0.782 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 92.7 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 103 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.274 | <u>U</u> | 0.423 | 0.830 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0678 | <u>U</u> | 0.153 | 0.278 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 108 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.488 | | 0.240 | 0.464 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 103 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 101 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.488 | J | 0.245 | 0.521 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0144 | U | 0.0515 | 0.237 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 105 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0964 | <u>U</u> | 0.272 | 0.546 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 92.9 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 102 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.254 | <u>U</u> | 0.342 | 0.620 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.157 | <u>J</u> | 0.207 | 0.293 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 98.5 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.950 | | 0.268 | 0.501 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 103 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.6 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.20 | | 0.364 | 0.589 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.247 | J | 0.247 | 0.310 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 99.5 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.858 | | 0.296 | 0.561 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 86.2 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 90.8 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.889 | | 0.306 | 0.584 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0312 | <u>U</u> | 0.0773 | 0.161 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 101 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.546 | J | 0.423 | 0.830 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 99.0 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 102 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.694 | J | 0.457 | 0.860 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.148 | J | 0.172 | 0.224 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 97.8 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0602 | <u>U</u> | 0.289 | 0.577 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 93.3 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.5 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0602 | <u>U</u> | 0.326 | 0.676 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0478 | <u>U</u> | 0.150 | 0.353 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3781239-1 04/13/22 14:55

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - | MB MDA pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228 | -0.201 | <u>U</u> | 0.228 | 0.436 |
| (T) Barium | 95.1 | | 95.1 | |
| (T) Yttrium | 103 | | 103 | |

L1472862-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1472862-04 04/13/22 14:55 • (DUP) R3781239-5 04/13/22 14:55

| Analyte | Original Result pCi/l | Original Uncertainty + / - | Original MDA pCi/l | DUP Result pCi/l | DUP Uncertainty + / - | DUP MDA pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228 | 0.0639 | 0.293 | 0.553 | 0.240 | 0.587 | 0.553 | 1 | 116 | 0.268 | <u>U</u> | 20 | 3 |
| (T) Barium | 97.6 | | | 88.6 | 88.6 | | | | | | | |
| (T) Yttrium | 95.4 | | | 95.3 | 95.3 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3781239-2 04/13/22 14:55

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.53 | 111 | 80.0-120 | |
| (T) Barium | | | 99.8 | | |
| (T) Yttrium | | | 103 | | |

L1472862-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1472862-01 04/13/22 14:55 • (MS) R3781239-3 04/13/22 14:55 • (MSD) R3781239-4 04/13/22 14:55

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 10.0 | 0.396 | 11.9 | 13.3 | 115 | 129 | 1 | 70.0-130 | | | 10.7 | | 20 |
| (T) Barium | | 97.4 | | | 90.6 | 89.0 | | | | | | | |
| (T) Yttrium | | 104 | | | 95.6 | 97.4 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3782545-1 04/14/22 16:25

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - | MB MDA pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228 | 0.568 | | 0.228 | 0.426 |
| (T) Barium | 98.6 | | 98.6 | |
| (T) Yttrium | 90.6 | | 90.6 | |

L1473918-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1473918-02 04/14/22 16:25 • (DUP) R3782545-5 04/14/22 16:25

| Analyte | Original Result pCi/l | Original Uncertainty + / - | Original MDA pCi/l | DUP Result pCi/l | DUP Uncertainty + / - | DUP MDA pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228 | 0.718 | 0.267 | 0.460 | 0.196 | 0.540 | 0.460 | 1 | 114 | 0.867 | <u>U</u> | 20 | 3 |
| (T) Barium | 101 | | | 97.5 | 97.5 | | | | | | | |
| (T) Yttrium | 99.7 | | | 92.0 | 92.0 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3782545-2 04/14/22 16:25

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.14 | 103 | 80.0-120 | |
| (T) Barium | | | 103 | | |
| (T) Yttrium | | | 102 | | |

L1473918-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1473918-01 04/14/22 16:25 • (MS) R3782545-3 04/14/22 16:25 • (MSD) R3782545-4 04/14/22 16:25

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 10.0 | 0.669 | 12.2 | 12.0 | 116 | 113 | 1 | 70.0-130 | | | 1.73 | | 20 |
| (T) Barium | | 105 | | | 96.3 | 94.7 | | | | | | | |
| (T) Yttrium | | 98.1 | | | 103 | 101 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3781210-1 04/12/22 11:53

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|----------------|-----------|--------------|----------------|--------|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | -0.00750 | <u>U</u> | 0.0170 | 0.0606 |
| (T) Barium-133 | 109 | | 109 | |

L1478438-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1478438-01 04/12/22 11:53 • (DUP) R3781210-5 04/12/22 11:53

| 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 | 0.419 | 0.266 | 0.186 | 0.285 | 0.237 | 0.186 | 1 | 38.3 | 0.378 | | 20 | 3 |
| (T) Barium-133 | 105 | | | 101 | 101 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3781210-2 04/12/22 11:53

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------|--------------|------------|----------|-------------|---------------|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.02 | 4.11 | 81.9 | 80.0-120 | |
| (T) Barium-133 | | | 105 | | |

L1477565-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1477565-01 04/12/22 11:53 • (MS) R3781210-3 04/12/22 11:53 • (MSD) R3781210-4 04/12/22 11:53

| 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 | 0.0288 | 18.8 | 17.6 | 94.0 | 87.9 | 1 | 75.0-125 | | | 6.70 | | 20 |
| (T) Barium-133 | | 96.4 | | | 104 | 102 | | | | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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: QC Level:

Project#

Comments:
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..

Contact: Email:
Requested Due Date: Billing/PO:

Phone:

4477565

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 | 22031028-001A | 3/28/22 1103 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -02 | 22031028-002A | 3/28/22 1103 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -03 | 22031028-003A | 3/29/22 1628 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -04 | 22031028-004A | 3/28/22 1527 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -05 | 22031028-005A | 3/29/22 1410 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -06 | 22031028-006A | 3/28/22 1018 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -07 | 22031028-007A | 3/29/22 1330 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -08 | 22031028-008A | 3/29/22 1249 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -09 | 22031028-009A | 3/28/22 1425 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -10 | 22031028-010A | 3/29/22 1357 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -11 | 22031028-011A | 3/29/22 1213 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| *Relinquished By | Date/Time | Received By | Date/Time |
|------------------|-----------|-------------|-------------|
| Mary Kemp | | [Signature] | 4/1/22 0930 |
| | | | |
| | | | |

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)

10.761310 PLAB
13.961310
SUBC&R&A
3/2/2016

May 12, 2022

Eric Bauer
Ramboll
234 W. Florida St.
5th Floor
Milwaukee, WI 53204
TEL: (414) 837-3614
FAX:



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

RE: Baldwin Q1 Groundwater

WorkOrder: 22031028

Dear Eric Bauer:

TEKLAB, INC received 17 samples on 3/30/2022 7:30:00 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
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

This reporting package includes the following:

| | |
|----------------------|----------|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 19 |
| Dates Report | 20 |
| Receiving Check List | 21 |
| Chain of Custody | Appended |

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

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)

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

Cooler Receipt Temp: 4.0 °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.

Baldwin Bottom Fly Ash Ponds CCR 605 data are included in this report. EAH 4/25/22

This report was revised on May 12, 2022 per Eric Bauer (Ramboll)'s request. The reason for the revision is correct the collection date from MW-366 from 3/28/22 to 3/29/22. Please replace report dated April 25, 2022 with this report.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
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

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|-----------|------|---------|-------|-----------|--------------|
| Illinois | IEPA | 100226 | NELAP | 1/31/2023 | Collinsville |
| Kansas | KDHE | E-10374 | NELAP | 4/30/2023 | Collinsville |
| Louisiana | LDEQ | 05002 | NELAP | 6/30/2022 | Collinsville |
| Louisiana | LDEQ | 05003 | NELAP | 6/30/2022 | Collinsville |
| Oklahoma | ODEQ | 9978 | NELAP | 8/31/2022 | Collinsville |
| Arkansas | ADEQ | 88-0966 | | 3/14/2023 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2023 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2023 | Collinsville |
| Missouri | MDNR | 930 | | 1/31/2025 | Collinsville |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-001
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-304
Collection Date: 03/28/2022 11:03

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-002
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-304 Duplicate
Collection Date: 03/28/2022 11:03

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-003
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-306
Collection Date: 03/29/2022 16:28

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-004
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-350
Collection Date: 03/28/2022 15:27

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-006
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-366
Collection Date: 03/29/2022 10:18

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-009
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-375
Collection Date: 03/28/2022 14:25

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-010
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-377
Collection Date: 03/28/2022 13:57

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-012
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-383
Collection Date: 03/29/2022 15:42

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-013
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-384
Collection Date: 03/29/2022 15:05

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-014
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-390
Collection Date: 03/29/2022 11:12

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-015
Matrix: GROUNDWATER

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: MW-391
Collection Date: 03/29/2022 9:44

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Q1 Groundwater
Lab ID: 22031028-017
Matrix: AQUEOUS

Work Order: 22031028
Report Date: 12-May-22
Client Sample ID: Field Blank
Collection Date: 03/29/2022 12:55

| 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 | 04/12/2022 0:00 | R309924 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 04/12/2022 0:00 | R309924 |



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---------------|------------------|-------------|-----------|------------------|
| 22031028-001 | MW-304 | Groundwater | 1 | 03/28/2022 11:03 |
| 22031028-002 | MW-304 Duplicate | Groundwater | 1 | 03/28/2022 11:03 |
| 22031028-003 | MW-306 | Groundwater | 1 | 03/29/2022 16:28 |
| 22031028-004 | MW-350 | Groundwater | 1 | 03/28/2022 15:27 |
| 22031028-006 | MW-366 | Groundwater | 1 | 03/29/2022 10:18 |
| 22031028-009 | MW-375 | Groundwater | 1 | 03/28/2022 14:25 |
| 22031028-010 | MW-377 | Groundwater | 1 | 03/28/2022 13:57 |
| 22031028-012 | MW-383 | Groundwater | 1 | 03/29/2022 15:42 |
| 22031028-013 | MW-384 | Groundwater | 1 | 03/29/2022 15:05 |
| 22031028-014 | MW-390 | Groundwater | 1 | 03/29/2022 11:12 |
| 22031028-015 | MW-391 | Groundwater | 1 | 03/29/2022 9:44 |
| 22031028-017 | Field Blank | Aqueous | 1 | 03/29/2022 12:55 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------------------------|------------------|------------------|-----------------|----------------|--------------------|
| Test Name | | | | | |
| 22031028-001A | MW-304 | 03/28/2022 11:03 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-002A | MW-304 Duplicate | 03/28/2022 11:03 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-003A | MW-306 | 03/29/2022 16:28 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-004A | MW-350 | 03/28/2022 15:27 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-006A | MW-366 | 03/29/2022 10:18 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-009A | MW-375 | 03/28/2022 14:25 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-010A | MW-377 | 03/28/2022 13:57 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-012A | MW-383 | 03/29/2022 15:42 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-013A | MW-384 | 03/29/2022 15:05 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-014A | MW-390 | 03/29/2022 11:12 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-015A | MW-391 | 03/29/2022 9:44 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |
| 22031028-017A | Field Blank | 03/29/2022 12:55 | 03/30/2022 7:30 | | |
| EPA 903.0/904.0, Radium 226/228 | | 04/12/2022 0:00 | | | |



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22031028

Client Project: Baldwin Q1 Groundwater

Report Date: 12-May-22

Carrier: Joe Riley

Received By: PWR

Completed by:

Mary E. Kemp

Reviewed by:

Elizabeth A. Hurley

On:

30-Mar-22

Mary E. Kemp

On:

30-Mar-22

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 4.0 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input type="checkbox"/> | Lab <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Any No responses must be detailed below or on the COC.

pH strip #78011. - MKemp - 3/30/2022 1:13:12 PM

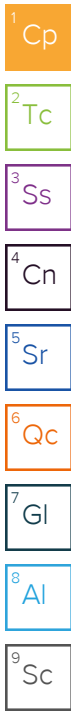
Additional nitric acid (80810) was needed in MW-304, MW-304DUP, MW-356, MW-370, MW-375, MW-382, MW-383, MW-390 and MW-391 upon arrival at the laboratory. - MKemp - 3/30/2022 1:13:13 PM



ANALYTICAL REPORT

May 11, 2022

Revised Report



TEKLAB, Inc.

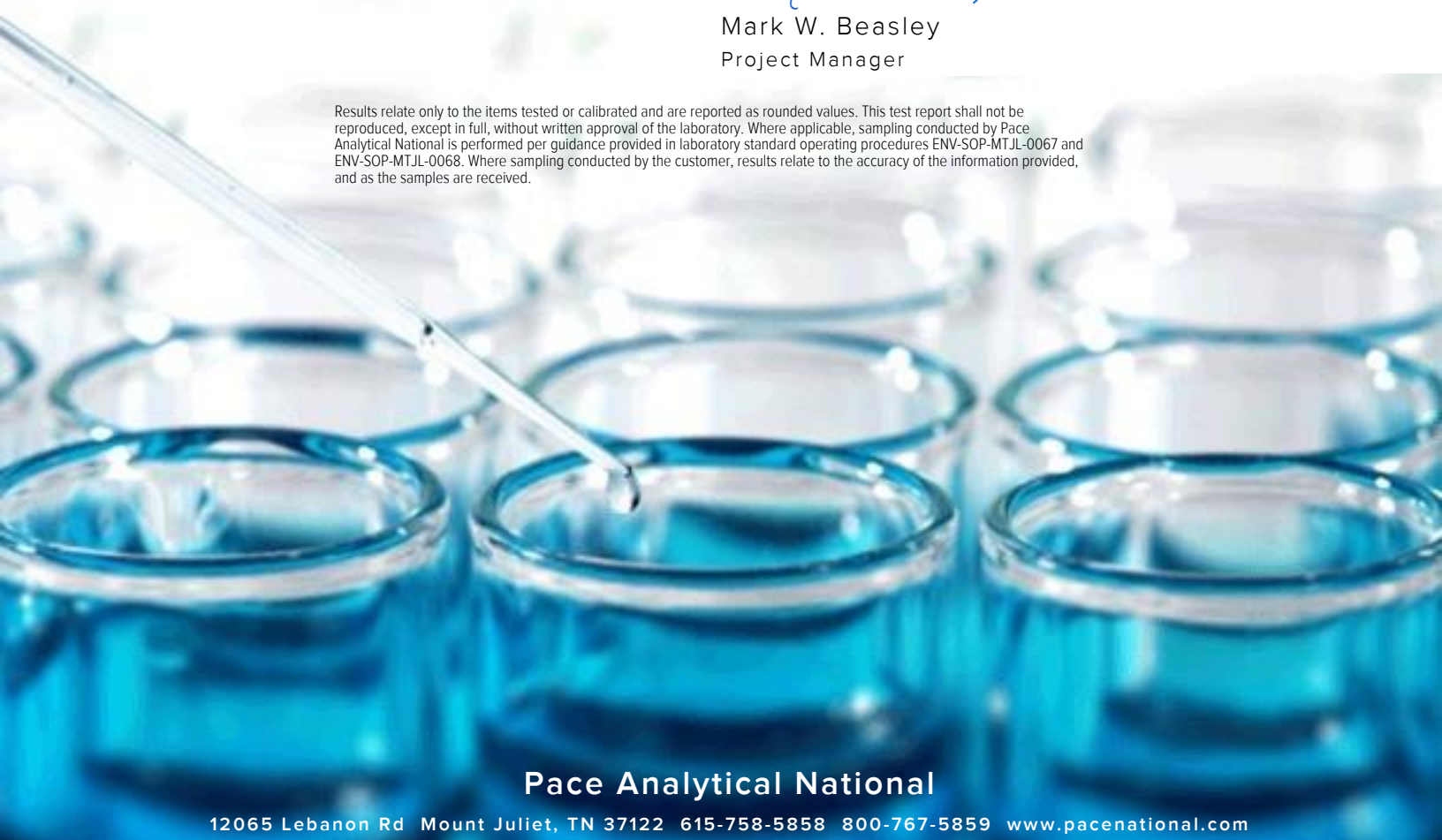
Sample Delivery Group: L1477565
 Samples Received: 04/01/2022
 Project Number: 22031028
 Description:

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.

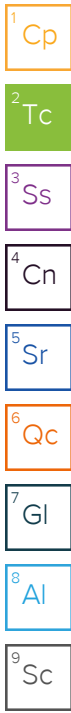


Pace Analytical National

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

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SAMPLE SUMMARY

22031028-001A L1477565-01 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 11:03 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

22031028-002A L1477565-02 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 11:03 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

22031028-003A L1477565-03 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 16:28 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

7 Gl

8 Al

9 Sc

22031028-004A L1477565-04 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 15:27 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844279 | 1 | 04/08/22 11:21 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 11:45 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-005A L1477565-05 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 14:10 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-006A L1477565-06 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 10:18 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

22031028-007A L1477565-07 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 13:30 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |



22031028-008A L1477565-08 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 12:49 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/14/22 16:25 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |



22031028-009A L1477565-09 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 14:25 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |



22031028-010A L1477565-10 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/28/22 13:57 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-011A L1477565-11 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 12:13 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-012A L1477565-12 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 15:42 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

22031028-013A L1477565-13 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 15:05 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

22031028-014A L1477565-14 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 11:12 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-015A L1477565-15 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 09:44 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-016A L1477565-16 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 14:46 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 12:03 | RGT | Mt. Juliet, TN |

22031028-017A L1477565-17 Non-Potable Water

Collected by J Riley/ A Bridges Collected date/time 03/29/22 12:55 Received date/time 04/01/22 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1844284 | 1 | 04/11/22 10:45 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1846342 | 1 | 04/11/22 15:42 | 04/15/22 12:10 | JMR | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1846342 | 1 | 04/11/22 15:42 | 04/12/22 11:53 | RGT | Mt. Juliet, TN |

CASE NARRATIVE

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



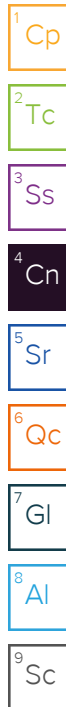
Mark W. Beasley
Project Manager

Report Revision History

Level II Report - Version 1: 04/19/22 11:56

Project Narrative

Updated collection date.



Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.939 | | 0.305 | 0.544 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 89.5 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 108 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.968 | | 0.344 | 0.628 | 04/14/2022 11:45 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0288 | <u>U</u> | 0.159 | 0.314 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 96.4 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.375 | J | 0.305 | 0.567 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 84.7 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 103 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.481 | J | 0.347 | 0.622 | 04/14/2022 11:45 | WG1846342 |

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.107 | J | 0.165 | 0.255 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 100 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

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 | 0.534 | J | 0.299 | 0.549 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 84.4 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 106 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.566 | J | 0.331 | 0.615 | 04/14/2022 11:45 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0323 | U | 0.141 | 0.277 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.869 | | 0.302 | 0.541 | 04/14/2022 11:45 | WG1844279 |
| (T) Barium | 94.8 | | | 62.0-143 | 04/14/2022 11:45 | WG1844279 |
| (T) Yttrium | 106 | | | 79.0-136 | 04/14/2022 11:45 | WG1844279 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.71 | | 0.488 | 0.575 | 04/14/2022 11:45 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.843 | | 0.383 | 0.195 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 100 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.375 | J | 0.296 | 0.565 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 91.3 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 100 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.422 | J | 0.321 | 0.610 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0472 | U | 0.123 | 0.229 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 97.5 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.491 | J | 0.288 | 0.546 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 84.6 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 104 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.567 | J | 0.312 | 0.575 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0767 | J | 0.119 | 0.181 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 95.1 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.0598 | <u>U</u> | 0.308 | 0.603 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 92.2 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 99.1 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.323 | <u>J</u> | 0.402 | 0.661 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.323 | | 0.258 | 0.270 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 104 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.285 | J | 0.300 | 0.578 | 04/14/2022 16:25 | WG1844284 |
| (T) Barium | 88.7 | | | 62.0-143 | 04/14/2022 16:25 | WG1844284 |
| (T) Yttrium | 94.4 | | | 79.0-136 | 04/14/2022 16:25 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.883 | | 0.427 | 0.620 | 04/14/2022 16:25 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.598 | | 0.304 | 0.223 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 99.4 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.248 | J | 0.244 | 0.481 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 102 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.8 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.248 | U | 0.250 | 0.529 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0186 | U | 0.0542 | 0.221 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

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 | 0.637 | | 0.278 | 0.533 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 96.4 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.7 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.702 | | 0.307 | 0.579 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0657 | <u>U</u> | 0.130 | 0.227 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

- 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 | 0.206 | <u>U</u> | 0.394 | 0.782 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 92.7 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 103 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.274 | <u>U</u> | 0.423 | 0.830 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0678 | <u>U</u> | 0.153 | 0.278 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 108 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.488 | | 0.240 | 0.464 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 103 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 101 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.488 | J | 0.245 | 0.521 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0144 | U | 0.0515 | 0.237 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 105 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0964 | <u>U</u> | 0.272 | 0.546 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 92.9 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 102 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.254 | <u>U</u> | 0.342 | 0.620 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.157 | <u>J</u> | 0.207 | 0.293 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 98.5 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.950 | | 0.268 | 0.501 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 103 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.6 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.20 | | 0.364 | 0.589 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.247 | J | 0.247 | 0.310 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 99.5 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.858 | | 0.296 | 0.561 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 86.2 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 90.8 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.889 | | 0.306 | 0.584 | 04/15/2022 12:10 | WG1846342 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0312 | <u>U</u> | 0.0773 | 0.161 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 101 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.546 | J | 0.423 | 0.830 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 99.0 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 102 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.694 | J | 0.457 | 0.860 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.148 | J | 0.172 | 0.224 | 04/12/2022 12:03 | WG1846342 |
| (T) Barium-133 | 97.8 | | | 30.0-143 | 04/12/2022 12:03 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0602 | <u>U</u> | 0.289 | 0.577 | 04/15/2022 12:10 | WG1844284 |
| (T) Barium | 93.3 | | | 62.0-143 | 04/15/2022 12:10 | WG1844284 |
| (T) Yttrium | 99.5 | | | 79.0-136 | 04/15/2022 12:10 | WG1844284 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.0602 | <u>U</u> | 0.326 | 0.676 | 04/15/2022 12:10 | WG1846342 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | -0.0478 | <u>U</u> | 0.150 | 0.353 | 04/12/2022 11:53 | WG1846342 |
| (T) Barium-133 | 103 | | | 30.0-143 | 04/12/2022 11:53 | WG1846342 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3781239-1 04/13/22 14:55

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - | MB MDA pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228 | -0.201 | <u>U</u> | 0.228 | 0.436 |
| (T) Barium | 95.1 | | 95.1 | |
| (T) Yttrium | 103 | | 103 | |

L1472862-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1472862-04 04/13/22 14:55 • (DUP) R3781239-5 04/13/22 14:55

| Analyte | Original Result pCi/l | Original Uncertainty + / - | Original MDA pCi/l | DUP Result pCi/l | DUP Uncertainty + / - | DUP MDA pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228 | 0.0639 | 0.293 | 0.553 | 0.240 | 0.587 | 0.553 | 1 | 116 | 0.268 | <u>U</u> | 20 | 3 |
| (T) Barium | 97.6 | | | 88.6 | 88.6 | | | | | | | |
| (T) Yttrium | 95.4 | | | 95.3 | 95.3 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3781239-2 04/13/22 14:55

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.53 | 111 | 80.0-120 | |
| (T) Barium | | | 99.8 | | |
| (T) Yttrium | | | 103 | | |

L1472862-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1472862-01 04/13/22 14:55 • (MS) R3781239-3 04/13/22 14:55 • (MSD) R3781239-4 04/13/22 14:55

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 10.0 | 0.396 | 11.9 | 13.3 | 115 | 129 | 1 | 70.0-130 | | | 10.7 | | 20 |
| (T) Barium | | 97.4 | | | 90.6 | 89.0 | | | | | | | |
| (T) Yttrium | | 104 | | | 95.6 | 97.4 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3782545-1 04/14/22 16:25

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - | MB MDA pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228 | 0.568 | | 0.228 | 0.426 |
| (T) Barium | 98.6 | | 98.6 | |
| (T) Yttrium | 90.6 | | 90.6 | |

L1473918-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1473918-02 04/14/22 16:25 • (DUP) R3782545-5 04/14/22 16:25

| Analyte | Original Result pCi/l | Original Uncertainty + / - | Original MDA pCi/l | DUP Result pCi/l | DUP Uncertainty + / - | DUP MDA pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228 | 0.718 | 0.267 | 0.460 | 0.196 | 0.540 | 0.460 | 1 | 114 | 0.867 | <u>U</u> | 20 | 3 |
| (T) Barium | 101 | | | 97.5 | 97.5 | | | | | | | |
| (T) Yttrium | 99.7 | | | 92.0 | 92.0 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3782545-2 04/14/22 16:25

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 5.14 | 103 | 80.0-120 | |
| (T) Barium | | | 103 | | |
| (T) Yttrium | | | 102 | | |

L1473918-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1473918-01 04/14/22 16:25 • (MS) R3782545-3 04/14/22 16:25 • (MSD) R3782545-4 04/14/22 16:25

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 10.0 | 0.669 | 12.2 | 12.0 | 116 | 113 | 1 | 70.0-130 | | | 1.73 | | 20 |
| (T) Barium | | 105 | | | 96.3 | 94.7 | | | | | | | |
| (T) Yttrium | | 98.1 | | | 103 | 101 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3781210-1 04/12/22 11:53

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|----------------|-----------|--------------|----------------|--------|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | -0.00750 | <u>U</u> | 0.0170 | 0.0606 |
| (T) Barium-133 | 109 | | 109 | |

L1478438-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1478438-01 04/12/22 11:53 • (DUP) R3781210-5 04/12/22 11:53

| 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 | 0.419 | 0.266 | 0.186 | 0.285 | 0.237 | 0.186 | 1 | 38.3 | 0.378 | | 20 | 3 |
| (T) Barium-133 | 105 | | | 101 | 101 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3781210-2 04/12/22 11:53

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------|--------------|------------|----------|-------------|---------------|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.02 | 4.11 | 81.9 | 80.0-120 | |
| (T) Barium-133 | | | 105 | | |

L1477565-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1477565-01 04/12/22 11:53 • (MS) R3781210-3 04/12/22 11:53 • (MSD) R3781210-4 04/12/22 11:53

| 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 | 0.0288 | 18.8 | 17.6 | 94.0 | 87.9 | 1 | 75.0-125 | | | 6.70 | | 20 |
| (T) Barium-133 | | 96.4 | | | 104 | 102 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

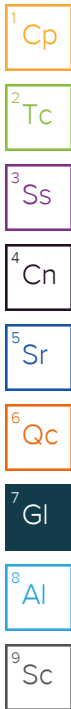
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

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



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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: QC Level:

Project#

Contact: Email:
Requested Due Date: Billing/PO:

Phone:

Comments:

4477565

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 | 22031028-001A | 3/28/22 1103 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -02 | 22031028-002A | 3/28/22 1103 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -03 | 22031028-003A | 3/29/22 1628 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -04 | 22031028-004A | 3/28/22 1527 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -05 | 22031028-005A | 3/29/22 1410 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -06 | 22031028-006A | 3/28/22 1018 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -07 | 22031028-007A | 3/29/22 1330 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -08 | 22031028-008A | 3/29/22 1249 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -09 | 22031028-009A | 3/28/22 1425 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -10 | 22031028-010A | 3/29/22 1357 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -11 | 22031028-011A | 3/29/22 1213 | HNO3 | Groundwater | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| *Relinquished By | Date/Time | Received By | Date/Time |
|------------------|-----------|-------------|-------------|
| Mary Kemp | | [Signature] | 4/1/22 0930 |
| | | | |
| | | | |

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)

10.761310 PLAB
13.961310
SUBC&REVA
3/2/2016

November 15, 2022

Eric Bauer
Ramboll
234 W. Florida St.
5th Floor
Milwaukee, WI 61704
TEL: (414) 837-3607
FAX: (414) 837-3608



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

RE: Baldwin Groundwater Q3 2022

WorkOrder: 22082027

Dear Eric Bauer:

TEKLAB, INC received 12 samples on 10/3/2022 10:50:00 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
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

This reporting package includes the following:

| | |
|-------------------------|----------|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 19 |
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| Chain of Custody | Appended |

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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)

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

Cooler Receipt Temp: 5.2 °C

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

MW-154 and MW-155 could not be collected; the wells were dry.

This report was revised on November 10, 2022 per Eric Bauer's request. The reason for the revision is to correct the report contact and the collection time for OW-156. Please replace report dated November 1, 2022 with this report. EAH 11/10/22

BAL_257_605 data is included in this report. EAH 11/15/22

Locations

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Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|-----------|------|---------|-------|-----------|--------------|
| Illinois | IEPA | 100226 | NELAP | 1/31/2023 | 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 | | 3/14/2023 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | Collinsville |
| Iowa | IDNR | 430 | | 6/1/2024 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2023 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2023 | Collinsville |
| Missouri | MDNR | 930 | | 1/31/2025 | Collinsville |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-011
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-304
 Collection Date: 09/29/2022 9:58

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 10.28 | ft | 1 | 09/29/2022 9:58 | R319899 |
| Elevation of groundwater surface | * | 0 | | 434.04 | ft | 1 | 09/29/2022 9:58 | R319899 |
| Measuring Point Elevation | * | 0 | | 444.32 | ft | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 7.72 | | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 86 | mV | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 3070 | µS/cm | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 16.5 | °C | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.66 | mg/L | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 826 | mg/L | 1 | 10/10/2022 10:55 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 10 | mg/L | 1 | 10/10/2022 10:55 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 1470 | mg/L | 1 | 10/04/2022 10:49 | R319035 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 199 | mg/L | 5 | 10/06/2022 17:15 | R319116 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.70 | mg/L | 1 | 10/10/2022 11:42 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 5 | | 174 | mg/L | 5 | 10/06/2022 17:15 | R319121 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 10.2 | mg/L | 1 | 10/06/2022 14:03 | 198315 |
| Magnesium | NELAP | 0.0500 | | 4.42 | mg/L | 1 | 10/06/2022 14:03 | 198315 |
| Potassium | NELAP | 0.100 | | 2.20 | mg/L | 1 | 10/06/2022 14:03 | 198315 |
| Sodium | NELAP | 0.0500 | | 570 | mg/L | 1 | 10/06/2022 14:03 | 198315 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Arsenic | NELAP | 0.0010 | | 0.0027 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Barium | NELAP | 0.0010 | | 0.0183 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Boron | NELAP | 0.0250 | | 1.75 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Chromium | NELAP | 0.0015 | J | 0.0013 | mg/L | 5 | 10/06/2022 21:31 | 198315 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Lithium | * | 0.0030 | | 0.0861 | mg/L | 5 | 10/06/2022 21:31 | 198315 |
| Molybdenum | NELAP | 0.0015 | J | 0.0008 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 20:59 | 198315 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/05/2022 20:59 | 198315 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-012
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-306
 Collection Date: 09/29/2022 18:18

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 17.96 | ft | 1 | 09/29/2022 18:18 | R319899 |
| Elevation of groundwater surface | * | 0 | | 382.00 | ft | 1 | 09/29/2022 18:18 | R319899 |
| Measuring Point Elevation | * | 0 | | 399.96 | ft | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 11.3 | | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 4 | mV | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 675 | µS/cm | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 14.9 | °C | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 1.47 | mg/L | 1 | 09/29/2022 18:18 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 11:04 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 50 | mg/L | 1 | 10/10/2022 11:04 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 300 | mg/L | 1 | 10/04/2022 10:49 | R319035 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 20 | | 41 | mg/L | 2 | 10/06/2022 17:52 | R319116 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.49 | mg/L | 1 | 10/10/2022 11:44 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 20 | | 68 | mg/L | 5 | 10/11/2022 11:12 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 39.8 | mg/L | 1 | 10/06/2022 14:06 | 198315 |
| Magnesium | NELAP | 0.050 | J | 0.036 | mg/L | 1 | 10/06/2022 14:06 | 198315 |
| Potassium | NELAP | 0.100 | | 1.40 | mg/L | 1 | 10/06/2022 14:06 | 198315 |
| Sodium | NELAP | 0.0500 | | 53.8 | mg/L | 1 | 10/06/2022 14:06 | 198315 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Arsenic | NELAP | 0.0010 | | 0.0014 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Barium | NELAP | 0.0010 | | 0.0121 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Boron | NELAP | 0.0250 | | 0.110 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/06/2022 21:37 | 198315 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Lithium | * | 0.0030 | | 0.0113 | mg/L | 5 | 10/06/2022 21:37 | 198315 |
| Molybdenum | NELAP | 0.0015 | | 0.0224 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/05/2022 21:05 | 198315 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/05/2022 21:05 | 198315 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-013
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-350
 Collection Date: 09/29/2022 15:27

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 23.95 | ft | 1 | 09/29/2022 15:27 | R319899 |
| Elevation of groundwater surface | * | 0 | | 372.85 | ft | 1 | 09/29/2022 15:27 | R319899 |
| Measuring Point Elevation | * | 0 | | 396.80 | ft | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 11.6 | | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | 4.4 | NTU | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | -21 | mV | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 870 | µS/cm | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 13.8 | °C | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 1.82 | mg/L | 1 | 09/29/2022 15:27 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 11:11 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 56 | mg/L | 1 | 10/10/2022 11:11 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 382 | mg/L | 1 | 10/04/2022 10:49 | R319035 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 113 | mg/L | 5 | 10/06/2022 18:08 | R319116 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.17 | mg/L | 1 | 10/10/2022 11:46 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 5 | | 65 | mg/L | 5 | 10/06/2022 18:08 | R319121 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 72.0 | mg/L | 1 | 10/06/2022 17:14 | 198316 |
| Magnesium | NELAP | 0.0500 | | 0.350 | mg/L | 1 | 10/06/2022 17:14 | 198316 |
| Potassium | NELAP | 0.100 | | 5.00 | mg/L | 1 | 10/06/2022 17:14 | 198316 |
| Sodium | NELAP | 0.0500 | | 70.2 | mg/L | 1 | 10/06/2022 17:14 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | J | 0.0009 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Arsenic | NELAP | 0.0010 | J | 0.0008 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Barium | NELAP | 0.0010 | | 0.296 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Boron | NELAP | 0.0250 | | 0.669 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Chromium | NELAP | 0.0015 | J | 0.0011 | mg/L | 5 | 10/08/2022 4:04 | 198316 |
| Cobalt | NELAP | 0.0010 | J | 0.0002 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Lead | NELAP | 0.0010 | | 0.0016 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Lithium | * | 0.0030 | | 0.0830 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0036 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 17:53 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 17:53 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-017
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-366
 Collection Date: 09/30/2022 12:19

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 17.91 | ft | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 6.78 | | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 138 | mV | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1810 | µS/cm | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 16.6 | °C | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 1.39 | mg/L | 1 | 09/30/2022 12:19 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 321 | mg/L | 1 | 10/10/2022 11:27 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 11:27 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 1350 | mg/L | 1 | 10/06/2022 10:04 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 200 | | 700 | mg/L | 20 | 10/06/2022 18:24 | R319116 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.36 | mg/L | 1 | 10/10/2022 11:50 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 5 | | 56 | mg/L | 5 | 10/06/2022 18:19 | R319121 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 227 | mg/L | 1 | 10/06/2022 17:21 | 198316 |
| Magnesium | NELAP | 0.0500 | | 98.4 | mg/L | 1 | 10/06/2022 17:21 | 198316 |
| Potassium | NELAP | 0.100 | | 4.65 | mg/L | 1 | 10/06/2022 17:21 | 198316 |
| Sodium | NELAP | 0.0500 | | 68.2 | mg/L | 1 | 10/06/2022 17:21 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Arsenic | NELAP | 0.0010 | J | 0.0005 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0607 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Boron | NELAP | 0.0250 | | 2.70 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 4:23 | 198316 |
| Cobalt | NELAP | 0.0010 | J | 0.0002 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Lithium | * | 0.0030 | | 0.0177 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0049 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 18:12 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 18:12 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-020
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-375
 Collection Date: 09/30/2022 13:30

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 33.25 | ft | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 7.79 | | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 61 | mV | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1780 | µS/cm | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 14.8 | °C | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.65 | mg/L | 1 | 09/30/2022 13:30 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 593 | mg/L | 1 | 10/10/2022 11:47 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 6 | mg/L | 1 | 10/10/2022 11:47 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 1030 | mg/L | 1 | 10/06/2022 10:05 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 160 | mg/L | 5 | 10/06/2022 18:59 | R319116 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 2.35 | mg/L | 1 | 10/10/2022 11:55 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 5 | | 118 | mg/L | 5 | 10/06/2022 18:59 | R319121 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 12.7 | mg/L | 1 | 10/06/2022 17:32 | 198316 |
| Magnesium | NELAP | 0.0500 | | 6.49 | mg/L | 1 | 10/06/2022 17:32 | 198316 |
| Potassium | NELAP | 0.100 | | 2.84 | mg/L | 1 | 10/06/2022 17:32 | 198316 |
| Sodium | NELAP | 0.0500 | | 354 | mg/L | 1 | 10/06/2022 17:32 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | J | 0.0009 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Arsenic | NELAP | 0.0010 | | 0.0019 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0312 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Boron | NELAP | 0.0250 | | 1.75 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 5:26 | 198316 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Lithium | * | 0.0030 | | 0.0958 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0341 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:16 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 19:16 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-021
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-377
 Collection Date: 09/30/2022 14:14

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 6.09 | ft | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 7.11 | | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 106 | mV | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1170 | µS/cm | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 17.3 | °C | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.60 | mg/L | 1 | 09/30/2022 14:14 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 416 | mg/L | 1 | 10/10/2022 11:54 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 11:54 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 622 | mg/L | 1 | 10/06/2022 10:05 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 10 | | 39 | mg/L | 1 | 10/11/2022 11:38 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.11 | mg/L | 1 | 10/10/2022 12:06 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 20 | | 99 | mg/L | 5 | 10/11/2022 11:44 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 57.3 | mg/L | 1 | 10/07/2022 15:59 | 198316 |
| Magnesium | NELAP | 0.0500 | | 37.9 | mg/L | 1 | 10/07/2022 15:59 | 198316 |
| Potassium | NELAP | 0.100 | | 3.47 | mg/L | 1 | 10/06/2022 17:51 | 198316 |
| Sodium | NELAP | 0.0500 | | 130 | mg/L | 1 | 10/07/2022 15:59 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Arsenic | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0589 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Boron | NELAP | 0.0250 | | 1.71 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 5:32 | 198316 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Lithium | * | 0.0030 | | 0.0621 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Molybdenum | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:22 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 19:22 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-023
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-383
 Collection Date: 09/30/2022 10:56

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 18.96 | ft | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 7.55 | | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 100 | mV | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1520 | µS/cm | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 18.2 | °C | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.44 | mg/L | 1 | 09/30/2022 10:56 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 585 | mg/L | 1 | 10/10/2022 12:33 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 12:33 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 906 | mg/L | 1 | 10/06/2022 10:05 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 100 | | 169 | mg/L | 10 | 10/11/2022 11:59 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 0.66 | mg/L | 1 | 10/10/2022 12:10 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 4 | | 42 | mg/L | 1 | 10/11/2022 11:54 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 19.4 | mg/L | 1 | 10/07/2022 16:07 | 198316 |
| Magnesium | NELAP | 0.0500 | | 7.71 | mg/L | 1 | 10/07/2022 16:07 | 198316 |
| Potassium | NELAP | 0.100 | | 2.14 | mg/L | 1 | 10/06/2022 17:58 | 198316 |
| Sodium | NELAP | 0.0500 | | 314 | mg/L | 1 | 10/07/2022 16:07 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Arsenic | NELAP | 0.0010 | J | 0.0006 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0481 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Boron | NELAP | 0.0250 | | 1.52 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 5:44 | 198316 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Lithium | * | 0.0030 | | 0.0411 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0132 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:35 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 19:35 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-024
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-384
 Collection Date: 09/30/2022 10:14

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 14.40 | ft | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 8.08 | | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 65 | mV | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 2900 | µS/cm | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 17.0 | °C | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.90 | mg/L | 1 | 09/30/2022 10:14 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 617 | mg/L | 1 | 10/10/2022 12:41 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 14 | mg/L | 1 | 10/10/2022 12:41 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 1600 | mg/L | 1 | 10/06/2022 10:06 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 10 | | 35 | mg/L | 1 | 10/11/2022 12:02 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 4.12 | mg/L | 1 | 10/10/2022 12:12 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 80 | | 531 | mg/L | 20 | 10/11/2022 22:58 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 19.4 | mg/L | 1 | 10/07/2022 16:11 | 198316 |
| Magnesium | NELAP | 0.0500 | | 7.59 | mg/L | 1 | 10/07/2022 16:11 | 198316 |
| Potassium | NELAP | 0.100 | | 2.64 | mg/L | 1 | 10/06/2022 18:02 | 198316 |
| Sodium | NELAP | 0.0500 | | 577 | mg/L | 1 | 10/07/2022 16:11 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Arsenic | NELAP | 0.0010 | J | 0.0004 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0666 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Boron | NELAP | 0.0250 | | 1.91 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Chromium | NELAP | 0.0015 | J | 0.0015 | mg/L | 5 | 10/08/2022 5:51 | 198316 |
| Cobalt | NELAP | 0.0010 | J | 0.0003 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Lithium | * | 0.0030 | | 0.0594 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0352 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:42 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 19:42 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-025
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-390
 Collection Date: 09/30/2022 12:57

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 8.91 | ft | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 7.15 | | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 55 | mV | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 1500 | µS/cm | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 17.0 | °C | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.45 | mg/L | 1 | 09/30/2022 12:57 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 435 | mg/L | 1 | 10/10/2022 12:49 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 12:49 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 826 | mg/L | 1 | 10/06/2022 8:45 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 180 | mg/L | 5 | 10/11/2022 12:10 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.13 | mg/L | 1 | 10/10/2022 12:13 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 20 | | 115 | mg/L | 5 | 10/11/2022 12:10 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 100 | mg/L | 1 | 10/07/2022 16:14 | 198316 |
| Magnesium | NELAP | 0.0500 | | 42.4 | mg/L | 1 | 10/07/2022 16:14 | 198316 |
| Potassium | NELAP | 0.100 | | 4.14 | mg/L | 1 | 10/06/2022 18:06 | 198316 |
| Sodium | NELAP | 0.0500 | | 113 | mg/L | 1 | 10/07/2022 16:14 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Arsenic | NELAP | 0.0010 | | 0.0017 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Barium | NELAP | 0.0010 | | 0.105 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Boron | NELAP | 0.0250 | | 0.384 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 5:57 | 198316 |
| Cobalt | NELAP | 0.0010 | J | 0.0002 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Lithium | * | 0.0030 | | 0.0276 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0051 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:48 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 19:48 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-026
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-391
 Collection Date: 09/30/2022 11:46

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 56.90 | ft | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 8.16 | | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 110 | mV | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 2620 | µS/cm | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 15.6 | °C | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.44 | mg/L | 1 | 09/30/2022 11:46 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 632 | mg/L | 1 | 10/10/2022 12:56 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 24 | mg/L | 1 | 10/10/2022 12:56 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 1660 | mg/L | 1 | 10/06/2022 10:06 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 100 | | 426 | mg/L | 10 | 10/11/2022 12:31 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 3.55 | mg/L | 1 | 10/10/2022 12:15 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 40 | | 147 | mg/L | 10 | 10/11/2022 12:32 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 8.06 | mg/L | 1 | 10/07/2022 16:18 | 198316 |
| Magnesium | NELAP | 0.0500 | | 3.88 | mg/L | 1 | 10/06/2022 18:10 | 198316 |
| Potassium | NELAP | 0.100 | | 2.99 | mg/L | 1 | 10/06/2022 18:10 | 198316 |
| Sodium | NELAP | 0.0500 | | 607 | mg/L | 1 | 10/07/2022 16:18 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | 0.0022 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Arsenic | NELAP | 0.0010 | | 0.0051 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0222 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Boron | NELAP | 0.0250 | | 3.25 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Chromium | NELAP | 0.0015 | | 0.0019 | mg/L | 5 | 10/08/2022 6:03 | 198316 |
| Cobalt | NELAP | 0.0010 | J | 0.0007 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Lithium | * | 0.0030 | | 0.120 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0594 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Selenium | NELAP | 0.0010 | | 0.0020 | mg/L | 5 | 10/04/2022 19:54 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 19:54 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-030
 Matrix: GROUNDWATER

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: MW-304 Duplicate
 Collection Date: 09/29/2022 9:58

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| FIELD ELEVATION MEASUREMENTS | | | | | | | | |
| Depth to water from measuring point | * | 0 | | 10.28 | ft | 1 | 09/29/2022 9:58 | R319899 |
| Elevation of groundwater surface | * | 0 | | 434.04 | ft | 1 | 09/29/2022 9:58 | R319899 |
| Measuring Point Elevation | * | 0 | | 444.32 | ft | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHOD 4500-H B 2001 FIELD | | | | | | | | |
| pH | * | 1.00 | | 7.72 | | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2130 B FIELD | | | | | | | | |
| Turbidity | * | 1.0 | | < 1.0 | NTU | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 18TH ED. 2580 B FIELD | | | | | | | | |
| Oxidation-Reduction Potential | * | -300 | | 86 | mV | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2510 B FIELD | | | | | | | | |
| Spec. Conductance, Field | * | 0 | | 3070 | µS/cm | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2550 B FIELD | | | | | | | | |
| Temperature | * | 0 | | 16.5 | °C | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 4500-O G FIELD | | | | | | | | |
| Oxygen, Dissolved | * | 0 | | 0.66 | mg/L | 1 | 09/29/2022 9:58 | R319899 |
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO3) | NELAP | 0 | | 818 | mg/L | 1 | 10/10/2022 13:10 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO3) | NELAP | 0 | | 16 | mg/L | 1 | 10/10/2022 13:10 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | 1490 | mg/L | 1 | 10/06/2022 8:45 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 50 | | 239 | mg/L | 5 | 10/11/2022 12:48 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | 1.57 | mg/L | 1 | 10/10/2022 12:18 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 20 | | 185 | mg/L | 5 | 10/11/2022 12:48 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | 9.79 | mg/L | 1 | 10/07/2022 16:48 | 198316 |
| Magnesium | NELAP | 0.0500 | | 4.50 | mg/L | 1 | 10/06/2022 18:17 | 198316 |
| Potassium | NELAP | 0.100 | | 2.25 | mg/L | 1 | 10/06/2022 18:17 | 198316 |
| Sodium | NELAP | 0.0500 | | 570 | mg/L | 1 | 10/07/2022 16:48 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Arsenic | NELAP | 0.0010 | | 0.0045 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Barium | NELAP | 0.0010 | | 0.0279 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Boron | NELAP | 0.0250 | | 2.58 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 6:16 | 198316 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Lithium | * | 0.0030 | | 0.126 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Molybdenum | NELAP | 0.0015 | | 0.0016 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 20:07 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 20:07 | 198316 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
 Client Project: Baldwin Groundwater Q3 2022
 Lab ID: 22082027-031
 Matrix: AQUEOUS

Work Order: 22082027
 Report Date: 15-Nov-22
 Client Sample ID: Field Blank
 Collection Date: 09/30/2022 15:00

| Analyses | Certification | RL | Qual | Result | Units | DF | Date Analyzed | Batch |
|---|---------------|--------|------|----------|-------|----|------------------|---------|
| STANDARD METHODS 2320 B (TOTAL) 1997, 2011 | | | | | | | | |
| Alkalinity, Bicarbonate (as CaCO ₃) | NELAP | 0 | | 1 | mg/L | 1 | 10/10/2022 13:19 | R319254 |
| STANDARD METHODS 2320 B 1997, 2011 | | | | | | | | |
| Alkalinity, Carbonate (as CaCO ₃) | NELAP | 0 | | 0 | mg/L | 1 | 10/10/2022 13:19 | R319254 |
| STANDARD METHODS 2540 C (TOTAL) 1997, 2011 | | | | | | | | |
| Total Dissolved Solids | NELAP | 20 | | < 20 | mg/L | 1 | 10/06/2022 10:06 | R319177 |
| SW-846 9036 (TOTAL) | | | | | | | | |
| Sulfate | NELAP | 10 | | < 10 | mg/L | 1 | 10/11/2022 12:58 | R319319 |
| SW-846 9214 (TOTAL) | | | | | | | | |
| Fluoride | NELAP | 0.10 | | < 0.10 | mg/L | 1 | 10/10/2022 12:28 | R319255 |
| SW-846 9251 (TOTAL) | | | | | | | | |
| Chloride | NELAP | 4 | | < 4 | mg/L | 1 | 10/11/2022 12:58 | R319323 |
| SW-846 3005A, 6010B, METALS BY ICP (TOTAL) | | | | | | | | |
| Calcium | NELAP | 0.100 | | < 0.100 | mg/L | 1 | 10/06/2022 18:21 | 198316 |
| Magnesium | NELAP | 0.0500 | | < 0.0500 | mg/L | 1 | 10/06/2022 18:21 | 198316 |
| Potassium | NELAP | 0.100 | | < 0.100 | mg/L | 1 | 10/06/2022 18:21 | 198316 |
| Sodium | NELAP | 0.050 | J | 0.021 | mg/L | 1 | 10/06/2022 18:21 | 198316 |
| SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL) | | | | | | | | |
| Antimony | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Arsenic | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Barium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Boron | NELAP | 0.0250 | | < 0.0250 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Chromium | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/08/2022 6:22 | 198316 |
| Cobalt | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Lead | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Lithium | * | 0.0030 | | < 0.0030 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Molybdenum | NELAP | 0.0015 | | < 0.0015 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Selenium | NELAP | 0.0010 | | < 0.0010 | mg/L | 5 | 10/04/2022 21:05 | 198316 |
| Thallium | NELAP | 0.0020 | | < 0.0020 | mg/L | 5 | 10/04/2022 21:05 | 198316 |



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---------------|------------------|-------------|-----------|------------------|
| 22082027-011 | MW-304 | Groundwater | 4 | 09/29/2022 9:58 |
| 22082027-012 | MW-306 | Groundwater | 4 | 09/29/2022 18:18 |
| 22082027-013 | MW-350 | Groundwater | 4 | 09/29/2022 15:27 |
| 22082027-017 | MW-366 | Groundwater | 2 | 09/30/2022 12:19 |
| 22082027-020 | MW-375 | Groundwater | 2 | 09/30/2022 13:30 |
| 22082027-021 | MW-377 | Groundwater | 2 | 09/30/2022 14:14 |
| 22082027-023 | MW-383 | Groundwater | 2 | 09/30/2022 10:56 |
| 22082027-024 | MW-384 | Groundwater | 2 | 09/30/2022 10:14 |
| 22082027-025 | MW-390 | Groundwater | 2 | 09/30/2022 12:57 |
| 22082027-026 | MW-391 | Groundwater | 2 | 09/30/2022 11:46 |
| 22082027-030 | MW-304 Duplicate | Groundwater | 4 | 09/29/2022 9:58 |
| 22082027-031 | Field Blank | Aqueous | 4 | 09/30/2022 15:00 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| 22082027-011A | MW-304 | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | EPA 600 353.2 R2.0 (Total) | | | | 09/30/2022 17:35 |
| | Field Elevation Measurements | | | | 09/29/2022 9:58 |
| | Standard Method 4500-H B 2001 Field | | | | 09/29/2022 9:58 |
| | Standard Methods 2130 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 10:55 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 10:55 |
| | Standard Methods 2510 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/04/2022 10:49 |
| | Standard Methods 2550 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/30/2022 12:41 |
| | Standard Methods 4500-O G Field | | | | 09/29/2022 9:58 |
| | SW-846 9036 (Total) | | | | 10/06/2022 17:15 |
| | SW-846 9214 (Total) | | | | 10/10/2022 11:42 |
| | SW-846 9251 (Total) | | | | 10/06/2022 17:15 |
| 22082027-011B | MW-304 | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | SW-846 9036 (Dissolved) | | | | 10/06/2022 14:16 |
| | SW-846 9251 (Dissolved) | | | | 10/06/2022 14:11 |
| 22082027-011C | MW-304 | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:38 | 10/06/2022 14:03 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:38 | 10/05/2022 3:06 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:38 | 10/05/2022 20:59 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:38 | 10/06/2022 21:31 |
| 22082027-011D | MW-304 | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/04/2022 9:10 | 10/05/2022 15:38 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/04/2022 9:10 | 10/06/2022 16:36 |
| 22082027-012A | MW-306 | 09/29/2022 18:18 | 10/03/2022 10:50 | | |
| | EPA 600 353.2 R2.0 (Total) | | | | 09/30/2022 17:37 |
| | Field Elevation Measurements | | | | 09/29/2022 18:18 |
| | Standard Method 4500-H B 2001 Field | | | | 09/29/2022 18:18 |
| | Standard Methods 2130 B Field | | | | 09/29/2022 18:18 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/29/2022 18:18 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 11:04 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 11:04 |
| | Standard Methods 2510 B Field | | | | 09/29/2022 18:18 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/04/2022 10:49 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| | Test Name | | | | |
| | Standard Methods 2550 B Field | | | | 09/29/2022 18:18 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/30/2022 12:41 |
| | Standard Methods 4500-O G Field | | | | 09/29/2022 18:18 |
| | SW-846 9036 (Total) | | | | 10/06/2022 17:52 |
| | SW-846 9214 (Total) | | | | 10/10/2022 11:44 |
| | SW-846 9251 (Total) | | | | 10/11/2022 11:12 |
| 22082027-012B | MW-306 | 09/29/2022 18:18 | 10/03/2022 10:50 | | |
| | SW-846 9036 (Dissolved) | | | | 10/06/2022 14:24 |
| | SW-846 9251 (Dissolved) | | | | 10/06/2022 14:24 |
| 22082027-012C | MW-306 | 09/29/2022 18:18 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:38 | 10/06/2022 14:06 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:38 | 10/05/2022 3:12 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:38 | 10/05/2022 21:05 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:38 | 10/06/2022 21:37 |
| 22082027-012D | MW-306 | 09/29/2022 18:18 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/04/2022 9:10 | 10/05/2022 15:45 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/04/2022 9:10 | 10/06/2022 16:42 |
| 22082027-013A | MW-350 | 09/29/2022 15:27 | 10/03/2022 10:50 | | |
| | EPA 600 353.2 R2.0 (Total) | | | | 09/30/2022 17:42 |
| | Field Elevation Measurements | | | | 09/29/2022 15:27 |
| | Standard Method 4500-H B 2001 Field | | | | 09/29/2022 15:27 |
| | Standard Methods 2130 B Field | | | | 09/29/2022 15:27 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/29/2022 15:27 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 11:11 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 11:11 |
| | Standard Methods 2510 B Field | | | | 09/29/2022 15:27 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/04/2022 10:49 |
| | Standard Methods 2550 B Field | | | | 09/29/2022 15:27 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/30/2022 12:42 |
| | Standard Methods 4500-O G Field | | | | 09/29/2022 15:27 |
| | SW-846 9036 (Total) | | | | 10/06/2022 18:08 |
| | SW-846 9214 (Total) | | | | 10/10/2022 11:46 |
| | SW-846 9251 (Total) | | | | 10/06/2022 18:08 |
| 22082027-013B | MW-350 | 09/29/2022 15:27 | 10/03/2022 10:50 | | |
| | SW-846 9036 (Dissolved) | | | | 10/06/2022 14:32 |
| | SW-846 9251 (Dissolved) | | | | 10/06/2022 14:32 |
| 22082027-013C | MW-350 | 09/29/2022 15:27 | 10/03/2022 10:50 | | |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| | Test Name | | | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 17:14 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 17:53 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 12:16 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 4:04 |
| 22082027-013D | MW-350 | 09/29/2022 15:27 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/04/2022 9:10 | 10/05/2022 16:16 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/04/2022 9:10 | 10/06/2022 16:48 |
| 22082027-017A | MW-366 | 09/30/2022 12:19 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 12:19 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 12:19 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 12:19 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 12:19 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 11:27 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 11:27 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 12:19 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:04 |
| | Standard Methods 2550 B Field | | | | 09/30/2022 12:19 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 12:19 |
| | SW-846 9036 (Total) | | | | 10/06/2022 18:24 |
| | SW-846 9214 (Total) | | | | 10/10/2022 11:50 |
| | SW-846 9251 (Total) | | | | 10/06/2022 18:19 |
| 22082027-017B | MW-366 | 09/30/2022 12:19 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 17:21 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 18:12 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 13:22 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 4:23 |
| 22082027-020A | MW-375 | 09/30/2022 13:30 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 13:30 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 13:30 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 13:30 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 13:30 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 11:47 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 11:47 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 13:30 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:05 |
| | Standard Methods 2550 B Field | | | | 09/30/2022 13:30 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 13:30 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| | Test Name | | | | |
| | SW-846 9036 (Total) | | | | 10/06/2022 18:59 |
| | SW-846 9214 (Total) | | | | 10/10/2022 11:55 |
| | SW-846 9251 (Total) | | | | 10/06/2022 18:59 |
| 22082027-020B | MW-375 | 09/30/2022 13:30 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 17:32 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 19:16 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 13:36 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 5:26 |
| 22082027-021A | MW-377 | 09/30/2022 14:14 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 14:14 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 14:14 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 14:14 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 14:14 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 11:54 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 11:54 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 14:14 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:05 |
| | Standard Methods 2550 B Field | | | | 09/30/2022 14:14 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 14:14 |
| | SW-846 9036 (Total) | | | | 10/11/2022 11:38 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:06 |
| | SW-846 9251 (Total) | | | | 10/11/2022 11:44 |
| 22082027-021B | MW-377 | 09/30/2022 14:14 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 17:51 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/07/2022 15:59 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 19:22 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 13:41 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 5:32 |
| 22082027-023A | MW-383 | 09/30/2022 10:56 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 10:56 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 10:56 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 10:56 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 10:56 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 12:33 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 12:33 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 10:56 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:05 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| | Test Name | | | | |
| | Standard Methods 2550 B Field | | | | 09/30/2022 10:56 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 10:56 |
| | SW-846 9036 (Total) | | | | 10/11/2022 11:59 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:10 |
| | SW-846 9251 (Total) | | | | 10/11/2022 11:54 |
| 22082027-023B | MW-383 | 09/30/2022 10:56 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 17:58 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/07/2022 16:07 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 19:35 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 14:33 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 5:44 |
| 22082027-024A | MW-384 | 09/30/2022 10:14 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 10:14 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 10:14 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 10:14 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 10:14 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 12:41 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 12:41 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 10:14 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:06 |
| | Standard Methods 2550 B Field | | | | 09/30/2022 10:14 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 10:14 |
| | SW-846 9036 (Total) | | | | 10/11/2022 12:02 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:12 |
| | SW-846 9251 (Total) | | | | 10/11/2022 22:58 |
| 22082027-024B | MW-384 | 09/30/2022 10:14 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 18:02 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/07/2022 16:11 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 19:42 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 14:38 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 5:51 |
| 22082027-025A | MW-390 | 09/30/2022 12:57 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 12:57 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 12:57 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 12:57 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 12:57 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 12:49 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 12:49 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 12:57 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 8:45 |
| | Standard Methods 2550 B Field | | | | 09/30/2022 12:57 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 12:57 |
| | SW-846 9036 (Total) | | | | 10/11/2022 12:10 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:13 |
| | SW-846 9251 (Total) | | | | 10/11/2022 12:10 |
| 22082027-025B | MW-390 | 09/30/2022 12:57 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 18:06 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/07/2022 16:14 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 19:48 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 14:42 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 5:57 |
| 22082027-026A | MW-391 | 09/30/2022 11:46 | 10/03/2022 10:50 | | |
| | Field Elevation Measurements | | | | 09/30/2022 11:46 |
| | Standard Method 4500-H B 2001 Field | | | | 09/30/2022 11:46 |
| | Standard Methods 2130 B Field | | | | 09/30/2022 11:46 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/30/2022 11:46 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 12:56 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 12:56 |
| | Standard Methods 2510 B Field | | | | 09/30/2022 11:46 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:06 |
| | Standard Methods 2550 B Field | | | | 09/30/2022 11:46 |
| | Standard Methods 4500-O G Field | | | | 09/30/2022 11:46 |
| | SW-846 9036 (Total) | | | | 10/11/2022 12:31 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:15 |
| | SW-846 9251 (Total) | | | | 10/11/2022 12:32 |
| 22082027-026B | MW-391 | 09/30/2022 11:46 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 18:10 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/07/2022 16:18 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 19:54 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 14:47 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 6:03 |
| 22082027-030A | MW-304 Duplicate | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | EPA 600 353.2 R2.0 (Total) | | | | 09/30/2022 17:50 |
| | Field Elevation Measurements | | | | 09/29/2022 9:58 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| | Test Name | | | | |
| | Standard Method 4500-H B 2001 Field | | | | 09/29/2022 9:58 |
| | Standard Methods 2130 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 18th Ed. 2580 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 13:10 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 13:10 |
| | Standard Methods 2510 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 8:45 |
| | Standard Methods 2550 B Field | | | | 09/29/2022 9:58 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/30/2022 14:16 |
| | Standard Methods 4500-O G Field | | | | 09/29/2022 9:58 |
| | SW-846 9036 (Total) | | | | 10/11/2022 12:48 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:18 |
| | SW-846 9251 (Total) | | | | 10/11/2022 12:48 |
| 22082027-030B | MW-304 Duplicate | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | SW-846 9036 (Dissolved) | | | | 10/06/2022 15:12 |
| | SW-846 9251 (Dissolved) | | | | 10/06/2022 15:07 |
| 22082027-030C | MW-304 Duplicate | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 18:17 |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/07/2022 16:48 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 20:07 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 14:56 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 6:16 |
| 22082027-030D | MW-304 Duplicate | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/06/2022 14:02 | 10/07/2022 15:15 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/06/2022 14:02 | 10/13/2022 3:37 |
| 22082027-031A | Field Blank | 09/30/2022 15:00 | 10/03/2022 10:50 | | |
| | EPA 600 353.2 R2.0 (Total) | | | | 09/30/2022 18:30 |
| | Standard Methods 2320 B (Total) 1997, 2011 | | | | 10/10/2022 13:19 |
| | Standard Methods 2320 B 1997, 2011 | | | | 10/10/2022 13:19 |
| | Standard Methods 2540 C (Total) 1997, 2011 | | | | 10/06/2022 10:06 |
| | Standard Methods 4500-NO2 B (Total) 2000, 2011 | | | | 09/30/2022 16:01 |
| | SW-846 9036 (Total) | | | | 10/11/2022 12:58 |
| | SW-846 9214 (Total) | | | | 10/10/2022 12:28 |
| | SW-846 9251 (Total) | | | | 10/11/2022 12:58 |
| 22082027-031B | Field Blank | 09/30/2022 15:00 | 10/03/2022 10:50 | | |
| | SW-846 9036 (Dissolved) | | | | 10/06/2022 15:18 |
| | SW-846 9251 (Dissolved) | | | | 10/06/2022 15:18 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------|--|------------------|------------------|------------------|--------------------|
| Test Name | | | | | |
| 22082027-031C | Field Blank | 09/30/2022 15:00 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6010B, Metals by ICP (Total) | | | 10/03/2022 16:46 | 10/06/2022 18:21 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/04/2022 21:05 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/06/2022 15:06 |
| | SW-846 3005A, 6020A, Metals by ICPMS (Total) | | | 10/03/2022 16:46 | 10/08/2022 6:22 |
| 22082027-031D | Field Blank | 09/30/2022 15:00 | 10/03/2022 10:50 | | |
| | SW-846 3005A, 6020A, Metals by ICPMS (Dissolved) | | | 10/06/2022 14:02 | 10/07/2022 14:37 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

STANDARD METHOD 4500-H B 2001 FIELD

| Batch R319899 | | SampType: LCS | | Units | | | | | | | Date Analyzed |
|---------------------|------|---------------|------|-------------|-------|-------------|-------|-----------|------------|---------------|---------------|
| SampID: LCS-R319899 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| pH | * | 1.00 | | 7.07 | 7.000 | 0 | 101.0 | 98.57 | 101.4 | 09/29/2022 | |
| pH | * | 1.00 | | 6.99 | 7.000 | 0 | 99.9 | 98.57 | 101.4 | 09/30/2022 | |

STANDARD METHODS 2510 B FIELD

| Batch R319899 | | SampType: LCS | | Units µS/cm | | | | | | | Date Analyzed |
|--------------------------|------|---------------|------|-------------|-------|-------------|-------|-----------|------------|---------------|---------------|
| SampID: LCS-R319899 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Spec. Conductance, Field | * | 0 | | 1500 | 1409 | 0 | 106.7 | 90 | 110 | 09/30/2022 | |
| Spec. Conductance, Field | * | 0 | | 1450 | 1409 | 0 | 103.2 | 90 | 110 | 09/29/2022 | |

EPA 600 353.2 R2.0 (TOTAL)

| Batch R318832 | | SampType: MBLK | | Units mg/L | | | | | | | Date Analyzed |
|--------------------------|------|----------------|------|-------------------|-------|-------------|------|-----------|------------|---------------|---------------|
| 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 | | | | | | 09/30/2022 | |

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R319035 | | SampType: MBLK | | Units mg/L | | | | | | | Date Analyzed |
|------------------------|------|----------------|------|----------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: MBLK | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Total Dissolved Solids | | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2022 | |
| Total Dissolved Solids | | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/04/2022 | |

| Batch R319035 | | SampType: LCS | | Units mg/L | | | | | | | Date Analyzed |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: LCS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Total Dissolved Solids | | 20 | | 980 | 1000 | 0 | 98.0 | 90 | 110 | 10/04/2022 | |
| Total Dissolved Solids | | 20 | | 980 | 1000 | 0 | 98.0 | 90 | 110 | 10/04/2022 | |

| Batch R319035 | | SampType: DUP | | Units mg/L | | | | | | | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|---------------|
| SampID: 22082027-001ADUP | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Total Dissolved Solids | | 20 | | 718 | | | | 724.0 | 0.83 | 10/04/2022 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

STANDARD METHODS 2540 C (TOTAL) 1997, 2011

| Batch R319035 | | SampType: DUP | | Units mg/L | | | | RPD Limit: 5 | | | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|--------------|------|---------------|---------------|
| SampID: 22082027-006ADUP | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Total Dissolved Solids | | 20 | | 378 | | | | 374.0 | 1.06 | 10/04/2022 | |

| Batch R319177 | | SampType: MBLK | | Units mg/L | | | | Low Limit | | High Limit | | Date Analyzed |
|------------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|---------------|
| SampID: MBLK | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | | |
| Total Dissolved Solids | | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/06/2022 | | |
| Total Dissolved Solids | | 20 | | < 20 | 16.00 | 0 | 0 | -100 | 100 | 10/06/2022 | | |

| Batch R319177 | | SampType: LCS | | Units mg/L | | | | Low Limit | | High Limit | | Date Analyzed |
|------------------------|------|---------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|---------------|
| SampID: LCS | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | | |
| Total Dissolved Solids | | 20 | | 968 | 1000 | 0 | 96.8 | 90 | 110 | 10/06/2022 | | |
| Total Dissolved Solids | | 20 | | 972 | 1000 | 0 | 97.2 | 90 | 110 | 10/06/2022 | | |

| Batch R319177 | | SampType: DUP | | Units mg/L | | | | RPD Limit: 5 | | | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|--------------|------|---------------|---------------|
| SampID: 22082027-016ADUP | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Total Dissolved Solids | | 20 | | 706 | | | | 698.0 | 1.14 | 10/06/2022 | |

| Batch R319177 | | SampType: DUP | | Units mg/L | | | | RPD Limit: 5 | | | Date Analyzed |
|--------------------------|------|---------------|------|-------------|-------|-------------|------|--------------|------|---------------|---------------|
| SampID: 22082027-019ADUP | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Total Dissolved Solids | | 20 | | 3330 | | | | 3320 | 0.30 | 10/06/2022 | |

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

| Batch R318816 | | SampType: MBLK | | Units mg/L | | | | Low Limit | | High Limit | | Date Analyzed |
|--------------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|--|---------------|
| 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 | 09/30/2022 | | |

| Batch R318816 | | SampType: LCS | | Units mg/L | | | | Low Limit | | High Limit | | Date Analyzed |
|--------------------------|------|---------------|------|-------------|-------|-------------|------|-----------|------------|---------------|--|---------------|
| SampID: LCS | | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | | |
| Nitrogen, Nitrite (as N) | | 0.25 | | 1.07 | 1.100 | 0 | 97.3 | 90 | 110 | 09/30/2022 | | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

| Batch R318816 | | SampType: MS | | Units mg/L | | | | | | | |
|--------------------------|------|--------------|------|-------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22082027-001AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.52 | 0.5000 | 0 | 103.8 | 85 | 115 | 09/30/2022 | |

| Batch R318816 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|-------------|--------|-------------|-------|-------------|------|---------------|--|
| SampID: 22082027-001AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.52 | 0.5000 | 0 | 104.0 | 0.5190 | 0.19 | 09/30/2022 | |

| Batch R318816 | | SampType: MS | | Units mg/L | | | | | | | |
|--------------------------|------|--------------|------|-------------|--------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22082027-005AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.51 | 0.5000 | 0 | 101.4 | 85 | 115 | 09/30/2022 | |

| Batch R318816 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|-------------|--------|-------------|-------|-------------|------|---------------|--|
| SampID: 22082027-005AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Nitrogen, Nitrite (as N) | | 0.05 | | 0.51 | 0.5000 | 0 | 101.8 | 0.5070 | 0.39 | 09/30/2022 | |

SW-846 9036 (DISSOLVED)

| Batch R319319 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22082027-002BMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 100 | | 305 | 200.0 | 123.3 | 91.0 | 85 | 115 | 10/11/2022 | |

| Batch R319319 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--|
| SampID: 22082027-002BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Sulfate | | 100 | | 314 | 200.0 | 123.3 | 95.3 | 305.4 | 2.74 | 10/11/2022 | |

| Batch R319319 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22082027-010BMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 100 | | 340 | 200.0 | 155.0 | 92.3 | 85 | 115 | 10/11/2022 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

SW-846 9036 (DISSOLVED)

| Batch R319319 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 10 | | | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|------|---------------|------|---------------|---------------|
| SampID: 22082027-010BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Sulfate | | 100 | | 335 | 200.0 | 155.0 | 90.0 | 339.6 | 1.35 | 10/11/2022 | |

SW-846 9036 (TOTAL)

| Batch R319116 | | SampType: MBLK | | Units mg/L | | | | Low Limit | | High Limit | Date Analyzed |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: ICB/MBLK | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 10 | | < 10 | 6.140 | 0 | 0 | -100 | 100 | 10/06/2022 | |

| Batch R319116 | | SampType: LCS | | Units mg/L | | | | Low Limit | | High Limit | Date Analyzed |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|---------------|
| 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 | 102.0 | 90 | 110 | 10/06/2022 | |

| Batch R319116 | | SampType: MS | | Units mg/L | | | | Low Limit | | High Limit | Date Analyzed |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: 22082027-012AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 20 | E | 81 | 40.00 | 41.31 | 99.0 | 85 | 115 | 10/06/2022 | |

| Batch R319116 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 10 | | | Date Analyzed |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|---------------|------|---------------|---------------|
| SampID: 22082027-012AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Sulfate | | 20 | E | 82 | 40.00 | 41.31 | 101.5 | 80.91 | 1.23 | 10/06/2022 | |

| Batch R319319 | | SampType: MBLK | | Units mg/L | | | | Low Limit | | High Limit | Date Analyzed |
|------------------|------|----------------|------|------------|-------|-------------|------|-----------|------------|---------------|---------------|
| SampID: ICB/MBLK | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Sulfate | | 10 | | < 10 | 6.140 | 0 | 0 | -100 | 100 | 10/11/2022 | |

| Batch R319319 | | SampType: LCS | | Units mg/L | | | | Low Limit | | High Limit | Date Analyzed |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|---------------|
| 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 | 101.0 | 90 | 110 | 10/11/2022 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

SW-846 9214 (TOTAL)

| Batch R319255 | | 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 | 10/10/2022 | |

| Batch R319255 | | 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 | | 0.98 | 1.000 | 0 | 98.4 | 90 | 110 | 10/10/2022 | |

| Batch R319255 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22082027-020AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 4.45 | 2.000 | 2.351 | 105.1 | 75 | 125 | 10/10/2022 | |

| Batch R319255 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|--|
| SampID: 22082027-020AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 4.50 | 2.000 | 2.351 | 107.2 | 4.453 | 0.94 | 10/10/2022 | |

| Batch R319255 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|-------|-----------|------------|---------------|--|
| SampID: 22082027-030AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 3.71 | 2.000 | 1.569 | 107.1 | 75 | 125 | 10/10/2022 | |

| Batch R319255 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|-------|-------------|------|---------------|--|
| SampID: 22082027-030AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 3.68 | 2.000 | 1.569 | 105.7 | 3.711 | 0.76 | 10/10/2022 | |

| Batch R319255 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22082027-031AMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Fluoride | | 0.10 | | 1.97 | 2.000 | 0 | 98.3 | 75 | 125 | 10/10/2022 | |

| Batch R319255 | | SampType: MSD | | Units mg/L | | | | | | | |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|--|
| SampID: 22082027-031AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Fluoride | | 0.10 | | 1.95 | 2.000 | 0 | 97.6 | 1.966 | 0.77 | 10/10/2022 | |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

SW-846 9251 (DISSOLVED)

| Batch R319121 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 22082027-002BMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Chloride | | 1 | | 35 | 20.00 | 16.56 | 93.5 | 85 | 115 | 10/06/2022 |

| Batch R319121 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 15 |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|---------------|
| SampID: 22082027-002BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Chloride | | 1 | | 35 | 20.00 | 16.56 | 93.2 | 35.26 | 0.20 | 10/06/2022 | |

| Batch R319121 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 22082027-010BMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Chloride | | 1 | | 40 | 20.00 | 22.25 | 89.5 | 85 | 115 | 10/06/2022 |

| Batch R319121 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 15 |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|---------------|
| SampID: 22082027-010BMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Chloride | | 1 | | 40 | 20.00 | 22.25 | 88.0 | 40.15 | 0.78 | 10/06/2022 | |

SW-846 9251 (TOTAL)

| Batch R319121 | | 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 | 10/06/2022 |

| Batch R319121 | | SampType: LCS | | Units mg/L | | | | | | |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: ICB/LCS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Chloride | | 1 | | 20 | 20.00 | 0 | 100.6 | 90 | 110 | 10/06/2022 |

| Batch R319323 | | SampType: MBLK | | Units mg/L | | | | | | |
|------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: ICB/MBLK | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Chloride | | 4 | | < 4 | 0.5000 | 0 | 0 | -100 | 100 | 10/11/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

SW-846 9251 (TOTAL)

| Batch R319323 | | SampType: LCS | | Units mg/L | | | | | | |
|-----------------|------|---------------|------|------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: ICV/LCS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Chloride | | 4 | | 20 | 20.00 | 0 | 101.6 | 90 | 110 | 10/11/2022 |

| Batch R319323 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|-------|-------------|------|-----------|------------|---------------|
| SampID: 22082027-012AMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Chloride | | 20 | | 162 | 100.0 | 68.42 | 93.4 | 85 | 115 | 10/11/2022 |

| Batch R319323 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 15 |
|--------------------------|------|---------------|------|------------|-------|-------------|------|-------------|------|---------------|---------------|
| SampID: 22082027-012AMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Chloride | | 20 | | 163 | 100.0 | 68.42 | 94.8 | 161.9 | 0.83 | 10/11/2022 | |

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

| Batch 198315 | | SampType: MBLK | | Units mg/L | | | | | | |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-198315 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Arsenic | | 0.0250 | | < 0.0250 | 0.0087 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Barium | | 0.0025 | | < 0.0025 | 0.0007 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Boron | | 0.0200 | | < 0.0200 | 0.0090 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Calcium | | 0.100 | | < 0.100 | 0.0350 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Chromium | | 0.0050 | | < 0.0050 | 0.0028 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Cobalt | | 0.0050 | | < 0.0050 | 0.0020 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Iron | | 0.0400 | | < 0.0400 | 0.0200 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Lead | | 0.0150 | | < 0.0150 | 0.0014 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Lithium | | 0.0050 | | < 0.0050 | 0.0019 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Magnesium | | 0.0500 | | < 0.0500 | 0.0055 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Manganese | | 0.0070 | | < 0.0070 | 0.0025 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Molybdenum | | 0.0100 | | < 0.0100 | 0.0037 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Potassium | | 0.100 | | < 0.100 | 0.0400 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Selenium | | 0.0400 | | < 0.0400 | 0.0170 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Sodium | | 0.0500 | | < 0.0500 | 0.0180 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Thallium | | 0.0500 | | < 0.0500 | 0.0111 | 0 | 0 | -100 | 100 | 10/04/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

| Batch 198315 | | SampType: LCS | | Units mg/L | | | | | | |
|--------------------|------|---------------|------|--------------|--------|-------------|-------|-----------|------------|---------------|
| SampID: LCS-198315 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Arsenic | | 0.0250 | | 0.508 | 0.5000 | 0 | 101.6 | 85 | 115 | 10/04/2022 |
| Barium | | 0.0025 | | 1.98 | 2.000 | 0 | 98.8 | 85 | 115 | 10/04/2022 |
| Boron | | 0.0200 | | 0.500 | 0.5000 | 0 | 100.0 | 85 | 115 | 10/04/2022 |
| Calcium | | 0.100 | | 2.46 | 2.500 | 0 | 98.6 | 85 | 115 | 10/04/2022 |
| Chromium | | 0.0050 | | 0.198 | 0.2000 | 0 | 98.8 | 85 | 115 | 10/04/2022 |
| Cobalt | | 0.0050 | | 0.496 | 0.5000 | 0 | 99.2 | 85 | 115 | 10/04/2022 |
| Iron | | 0.0400 | | 1.98 | 2.000 | 0 | 98.8 | 85 | 115 | 10/04/2022 |
| Lead | | 0.0150 | | 0.497 | 0.5000 | 0 | 99.4 | 85 | 115 | 10/04/2022 |
| Lithium | | 0.0050 | | 0.506 | 0.5000 | 0 | 101.2 | 85 | 115 | 10/04/2022 |
| Magnesium | | 0.0500 | | 2.50 | 2.500 | 0 | 99.9 | 85 | 115 | 10/04/2022 |
| Manganese | | 0.0070 | | 0.490 | 0.5000 | 0 | 98.0 | 85 | 115 | 10/04/2022 |
| Molybdenum | | 0.0100 | | 0.485 | 0.5000 | 0 | 97.1 | 85 | 115 | 10/04/2022 |
| Potassium | | 0.100 | | 2.66 | 2.500 | 0 | 106.4 | 85 | 115 | 10/04/2022 |
| Selenium | | 0.0400 | | 0.490 | 0.5000 | 0 | 98.0 | 85 | 115 | 10/04/2022 |
| Sodium | | 0.0500 | | 2.22 | 2.500 | 0 | 89.0 | 85 | 115 | 10/04/2022 |
| Thallium | | 0.0500 | | 0.237 | 0.2500 | 0 | 94.9 | 85 | 115 | 10/04/2022 |

| Batch 198316 | | SampType: MBLK | | Units mg/L | | | | | | |
|---------------------|------|----------------|------|--------------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-198316 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium | | 0.100 | | < 0.100 | 0.0350 | 0 | 0 | -100 | 100 | 10/06/2022 |
| Magnesium | | 0.0500 | | < 0.0500 | 0.0055 | 0 | 0 | -100 | 100 | 10/06/2022 |
| Potassium | | 0.100 | | < 0.100 | 0.0400 | 0 | 0 | -100 | 100 | 10/06/2022 |
| Sodium | | 0.0500 | | < 0.0500 | 0.0180 | 0 | 0 | -100 | 100 | 10/06/2022 |

| Batch 198316 | | SampType: LCS | | Units mg/L | | | | | | |
|--------------------|------|---------------|------|-------------|-------|-------------|-------|-----------|------------|---------------|
| SampID: LCS-198316 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Calcium | | 0.100 | | 2.72 | 2.500 | 0 | 108.6 | 85 | 115 | 10/06/2022 |
| Magnesium | | 0.0500 | | 2.67 | 2.500 | 0 | 107.0 | 85 | 115 | 10/06/2022 |
| Potassium | | 0.100 | | 2.60 | 2.500 | 0 | 104.0 | 85 | 115 | 10/06/2022 |
| Sodium | | 0.0500 | | 2.48 | 2.500 | 0 | 99.0 | 85 | 115 | 10/06/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

| Batch 198332 | | SampType: MBLK | | Units mg/L | | | | | | |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-198332 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron | | 0.0250 | | < 0.0250 | 0.0093 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Iron | | 0.0250 | | < 0.0250 | 0.0115 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Manganese | | 0.0020 | | < 0.0020 | 0.0008 | 0 | 0 | -100 | 100 | 10/05/2022 |

| Batch 198332 | | SampType: LCS | | Units mg/L | | | | | | |
|--------------------|------|---------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: LCS-198332 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron | | 0.0250 | | 0.444 | 0.5000 | 0 | 88.8 | 85 | 115 | 10/05/2022 |
| Iron | | 0.0250 | | 1.83 | 2.000 | 0 | 91.3 | 85 | 115 | 10/06/2022 |
| Manganese | | 0.0020 | | 0.440 | 0.5000 | 0 | 88.1 | 85 | 115 | 10/05/2022 |

| Batch 198332 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|------------|--------|-------------|-------|-----------|------------|---------------|
| SampID: 22082027-002DMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron | | 0.0250 | | 0.575 | 0.5000 | 0.1168 | 91.6 | 75 | 125 | 10/05/2022 |
| Iron | | 0.0250 | | 3.72 | 2.000 | 1.860 | 93.0 | 75 | 125 | 10/07/2022 |
| Manganese | | 0.0020 | | 2.02 | 0.5000 | 1.496 | 104.2 | 75 | 125 | 10/05/2022 |

| Batch 198332 | | SampType: MSD | | Units mg/L | | | | | RPD Limit: 20 | | Date Analyzed |
|--------------------------|------|---------------|------|------------|--------|-------------|------|-------------|---------------|---------------|---------------|
| SampID: 22082027-002DMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Boron | | 0.0250 | | 0.550 | 0.5000 | 0.1168 | 86.7 | 0.5750 | 4.40 | 10/05/2022 | |
| Iron | | 0.0250 | | 3.50 | 2.000 | 1.860 | 81.8 | 3.720 | 6.23 | 10/07/2022 | |
| Manganese | | 0.0020 | | 1.93 | 0.5000 | 1.496 | 86.4 | 2.017 | 4.50 | 10/05/2022 | |

| Batch 198443 | | SampType: MBLK | | Units mg/L | | | | | | |
|---------------------|------|----------------|------|------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-198443 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron | | 0.0250 | | < 0.0250 | 0.0093 | 0 | 0 | -100 | 100 | 10/07/2022 |
| Iron | | 0.0250 | | < 0.0250 | 0.0115 | 0 | 0 | -100 | 100 | 10/07/2022 |
| Manganese | | 0.0020 | | < 0.0020 | 0.0008 | 0 | 0 | -100 | 100 | 10/07/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

| Batch 198443 | | SampType: LCS | | Units mg/L | | | | | | |
|--------------------|------|---------------|------|--------------|--------|-------------|------|-----------|------------|---------------|
| SampID: LCS-198443 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron | | 0.0250 | | 0.446 | 0.5000 | 0 | 89.2 | 85 | 115 | 10/07/2022 |
| Iron | | 0.0250 | | 1.73 | 2.000 | 0 | 86.6 | 85 | 115 | 10/07/2022 |
| Manganese | | 0.0020 | | 0.433 | 0.5000 | 0 | 86.5 | 85 | 115 | 10/07/2022 |

| Batch 198443 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|--------------|--------|-------------|-------|-----------|------------|---------------|
| SampID: 22082027-030DMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Boron | | 0.0250 | | 2.14 | 0.5000 | 1.604 | 107.9 | 75 | 125 | 10/13/2022 |
| Iron | | 0.0250 | | 1.74 | 2.000 | 0 | 86.9 | 75 | 125 | 10/07/2022 |
| Manganese | | 0.0020 | | 0.415 | 0.5000 | 0.002678 | 82.4 | 75 | 125 | 10/07/2022 |

| Batch 198443 | | SampType: MSD | | Units mg/L | | | | | | | RPD Limit: 20 |
|--------------------------|------|---------------|------|--------------|--------|-------------|------|-------------|------|---------------|---------------|
| SampID: 22082027-030DMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Boron | | 0.0250 | | 2.06 | 0.5000 | 1.604 | 90.3 | 2.144 | 4.17 | 10/13/2022 | |
| Iron | | 0.0250 | | 1.83 | 2.000 | 0 | 91.4 | 1.737 | 5.03 | 10/07/2022 | |
| Manganese | | 0.0020 | | 0.456 | 0.5000 | 0.002678 | 90.8 | 0.4146 | 9.62 | 10/07/2022 | |

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

| Batch 198315 | | SampType: MBLK | | Units mg/L | | | | | | |
|---------------------|------|----------------|------|-----------------|--------|-------------|------|-----------|------------|---------------|
| SampID: MBLK-198315 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Antimony | | 0.0010 | | < 0.0010 | 0.0005 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Arsenic | | 0.0010 | | < 0.0010 | 0.0004 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Barium | | 0.0010 | | < 0.0010 | 0.0007 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Boron | | 0.0250 | | < 0.0250 | 0.0093 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Chromium | | 0.0015 | | < 0.0015 | 0.0007 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Cobalt | | 0.0010 | | < 0.0010 | 0.0001 | 0 | 0 | -100 | 100 | 10/05/2022 |
| Iron | | 0.0250 | | < 0.0250 | 0.0115 | 0 | 0 | -100 | 100 | 10/06/2022 |
| Lead | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Lithium | * | 0.0030 | | < 0.0030 | 0.0015 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Manganese | | 0.0020 | | < 0.0020 | 0.0008 | 0 | 0 | -100 | 100 | 10/05/2022 |
| Molybdenum | | 0.0015 | | < 0.0015 | 0.0006 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Selenium | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 10/05/2022 |
| Thallium | | 0.0020 | | < 0.0020 | 0.0010 | 0 | 0 | -100 | 100 | 10/04/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

| Batch 198315 | | SampType: LCS | | Units mg/L | | | | | | |
|--------------------|------|---------------|------|--------------|--------|-------------|-------|-----------|------------|---------------|
| SampID: LCS-198315 | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Antimony | | 0.0010 | | 0.476 | 0.5000 | 0 | 95.2 | 80 | 120 | 10/05/2022 |
| Arsenic | | 0.0010 | | 0.471 | 0.5000 | 0 | 94.1 | 80 | 120 | 10/05/2022 |
| Barium | | 0.0010 | | 1.88 | 2.000 | 0 | 94.0 | 80 | 120 | 10/05/2022 |
| Boron | | 0.0250 | | 0.497 | 0.5000 | 0 | 99.3 | 80 | 120 | 10/05/2022 |
| Chromium | | 0.0015 | | 0.197 | 0.2000 | 0 | 98.4 | 80 | 120 | 10/06/2022 |
| Cobalt | | 0.0010 | | 0.466 | 0.5000 | 0 | 93.2 | 80 | 120 | 10/05/2022 |
| Iron | | 0.0250 | | 1.82 | 2.000 | 0 | 91.0 | 80 | 120 | 10/06/2022 |
| Lead | | 0.0010 | | 0.483 | 0.5000 | 0 | 96.7 | 80 | 120 | 10/05/2022 |
| Lithium | * | 0.0030 | | 0.517 | 0.5000 | 0 | 103.3 | 80 | 120 | 10/05/2022 |
| Manganese | | 0.0020 | | 0.463 | 0.5000 | 0 | 92.7 | 80 | 120 | 10/05/2022 |
| Molybdenum | | 0.0015 | | 0.463 | 0.5000 | 0 | 92.7 | 80 | 120 | 10/05/2022 |
| Selenium | | 0.0010 | | 0.459 | 0.5000 | 0 | 91.8 | 80 | 120 | 10/05/2022 |
| Thallium | | 0.0020 | | 0.223 | 0.2500 | 0 | 89.2 | 80 | 120 | 10/05/2022 |

| Batch 198315 | | SampType: MS | | Units mg/L | | | | | | |
|-------------------------|------|--------------|------|--------------|--------|-------------|------|-----------|------------|---------------|
| SampID: 22082027-006CMS | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
| Manganese | | 0.0020 | | 0.454 | 0.5000 | 0.02350 | 86.0 | 75 | 125 | 10/05/2022 |

| Batch 198315 | | SampType: MSD | | Units mg/L | | | | | | |
|--------------------------|------|---------------|------|--------------|--------|-------------|------|-------------|------|---------------|
| SampID: 22082027-006CMSD | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed |
| Manganese | | 0.0020 | | 0.457 | 0.5000 | 0.02350 | 86.8 | 0.4537 | 0.79 | 10/05/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

Batch 198316 **SampType: MBLK** Units mg/L
 SampID: MBLK-198316

| 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 | 10/04/2022 |
| Arsenic | | 0.0010 | | < 0.0010 | 0.0004 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Barium | | 0.0010 | | < 0.0010 | 0.0007 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Boron | | 0.0250 | | < 0.0250 | 0.0093 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Chromium | | 0.0015 | | < 0.0015 | 0.0007 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Cobalt | | 0.0010 | | < 0.0010 | 0.0001 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Iron | | 0.0250 | | < 0.0250 | 0.0115 | 0 | 0 | -100 | 100 | 10/14/2022 |
| Lead | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Lithium | * | 0.0030 | | < 0.0030 | 0.0015 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Manganese | | 0.0020 | | < 0.0020 | 0.0008 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Molybdenum | | 0.0015 | | < 0.0015 | 0.0006 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Selenium | | 0.0010 | | < 0.0010 | 0.0006 | 0 | 0 | -100 | 100 | 10/04/2022 |
| Thallium | | 0.0020 | | < 0.0020 | 0.0010 | 0 | 0 | -100 | 100 | 10/04/2022 |

Batch 198316 **SampType: LCS** Units mg/L
 SampID: LCS-198316

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|------------|------|--------|------|--------|--------|-------------|-------|-----------|------------|---------------|
| Antimony | | 0.0010 | | 0.482 | 0.5000 | 0 | 96.4 | 80 | 120 | 10/04/2022 |
| Arsenic | | 0.0010 | | 0.489 | 0.5000 | 0 | 97.7 | 80 | 120 | 10/04/2022 |
| Barium | | 0.0010 | | 1.62 | 2.000 | 0 | 80.8 | 80 | 120 | 10/04/2022 |
| Boron | | 0.0250 | | 0.477 | 0.5000 | 0 | 95.3 | 80 | 120 | 10/04/2022 |
| Chromium | | 0.0015 | | 0.199 | 0.2000 | 0 | 99.3 | 80 | 120 | 10/08/2022 |
| Cobalt | | 0.0010 | | 0.477 | 0.5000 | 0 | 95.5 | 80 | 120 | 10/04/2022 |
| Iron | | 0.0250 | | 2.01 | 2.000 | 0 | 100.5 | 80 | 120 | 10/08/2022 |
| Lead | | 0.0010 | | 0.472 | 0.5000 | 0 | 94.4 | 80 | 120 | 10/04/2022 |
| Lithium | * | 0.0030 | | 0.494 | 0.5000 | 0 | 98.8 | 80 | 120 | 10/04/2022 |
| Manganese | | 0.0020 | | 0.491 | 0.5000 | 0 | 98.3 | 80 | 120 | 10/08/2022 |
| Molybdenum | | 0.0015 | | 0.475 | 0.5000 | 0 | 94.9 | 80 | 120 | 10/04/2022 |
| Selenium | | 0.0010 | | 0.449 | 0.5000 | 0 | 89.8 | 80 | 120 | 10/04/2022 |
| Thallium | | 0.0020 | | 0.235 | 0.2500 | 0 | 94.1 | 80 | 120 | 10/04/2022 |

Batch 198316 **SampType: MS** Units mg/L
 SampID: 22082027-015CMS

| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed |
|-----------|------|--------|------|--------|--------|-------------|------|-----------|------------|---------------|
| Iron | | 0.0250 | | 1.91 | 2.000 | 0.1255 | 89.1 | 75 | 125 | 10/08/2022 |
| Manganese | | 0.0020 | | 0.457 | 0.5000 | 0.01209 | 89.0 | 75 | 125 | 10/08/2022 |



Quality Control Results

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

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

| Batch 198316 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|--------------|--------|-------------|------|---------------|------|---------------|--|
| SampID: 22082027-015CMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Iron | | 0.0250 | | 1.81 | 2.000 | 0.1255 | 84.1 | 1.908 | 5.35 | 10/08/2022 | |
| Manganese | | 0.0020 | | 0.436 | 0.5000 | 0.01209 | 84.8 | 0.4573 | 4.73 | 10/08/2022 | |

| Batch 198576 | | SampType: MBLK | | Units mg/L | | | | | | | |
|---------------------|------|----------------|------|--------------------|--------|-------------|------|-----------|------------|---------------|--|
| SampID: MBLK-198576 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Iron | | 0.0250 | | < 0.0250 | 0.0115 | 0 | 0 | -100 | 100 | 10/11/2022 | |

| Batch 198576 | | SampType: LCS | | Units mg/L | | | | | | | |
|--------------------|------|---------------|------|-------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: LCS-198576 | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Iron | | 0.0250 | | 1.99 | 2.000 | 0 | 99.5 | 80 | 120 | 10/11/2022 | |

| Batch 198576 | | SampType: MS | | Units mg/L | | | | | | | |
|-------------------------|------|--------------|------|-------------|-------|-------------|------|-----------|------------|---------------|--|
| SampID: 22082027-006CMS | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | Low Limit | High Limit | Date Analyzed | |
| Iron | | 0.0250 | | 4.23 | 4.000 | 0.4692 | 94.0 | 75 | 125 | 10/11/2022 | |

| Batch 198576 | | SampType: MSD | | Units mg/L | | | | RPD Limit: 20 | | | |
|--------------------------|------|---------------|------|-------------|-------|-------------|-------|---------------|-------|---------------|--|
| SampID: 22082027-006CMSD | | | | | | | | | | | |
| Analyses | Cert | RL | Qual | Result | Spike | SPK Ref Val | %REC | RPD Ref Val | %RPD | Date Analyzed | |
| Iron | | 0.0250 | | 5.02 | 4.000 | 0.4692 | 113.7 | 4.229 | 17.05 | 10/11/2022 | |



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082027

Client Project: Baldwin Groundwater Q3 2022

Report Date: 15-Nov-22

Carrier: Joe Riley

Received By: ANC

Completed by:

Reviewed by:

On:

On:

03-Oct-22

03-Oct-22

Payton Yoch

Marvin L. Darling

Pages to follow: Chain of custody

Extra pages included

- Shipping container/cooler in good condition? Yes No Not Present Temp °C **5.2**
- 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 83856 - CET/pyoch - 10/3/2022 1:37:16 PM

22100038

22082027

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

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

| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | Valid Matrix Codes CODE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | | Analysis Test Y/N | Requested Analysis Filtered (Y/N) | | | | | | Residual Chlorine (Y/N) | Project No./ Lab I.D. |
|--------|--|-----------------------------------|----------------------------|---------------------------------------|-----------------------------|-----------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-------|----------------------|-----------------------------------|-------------|-----------------|---------------|--------------|--------------|-------------------------|-----------------------|
| | | | | | | DATE | TIME | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | | BAL_257_601 | BAL_257_605 | BAL_CLOSURE_605 | BAL_NPDES_600 | BAL_WPCP_605 | Quarterly GW | | |
| 1 | 22082027-001 MW-104DR | | | | | 09/29/22 | 0935 | 4 | 2 | | | | | | | | | | | | | | | | 22082027-001 | |
| 2 | 002 MW-104SR | | | | | 09/29/22 | 0914 | 4 | 2 | | | | | | | | | | | | | | | | 002 | |
| 3 | 003 MW-150 | | | | | 09/29/22 | 1456 | 4 | 2 | | | | | | | | | | | | | | | | 003 | |
| 4 | 004 MW-151 | | | | | 09/29/22 | 1527 | 4 | 2 | | | | | | | | | | | | | | | | 004 | |
| 5 | 005 MW-152 | | | | | 09/29/22 | 1124 | 4 | 2 | | | | | | | | | | | | | | | | 005 | |
| 6 | 006 MW-153 | | | | | 9/29/22 | 1627 | 4 | 2 | | | | | | | | | | | | | | | | 006 | |
| 7 | 007 MW-154 * | | | | | | | 4 | 2 | | | | | | | | | | | | | | | | 007 | |
| 8 | 008 MW-155 * | | | | | | | 4 | 2 | | | | | | | | | | | | | | | | 008 | |
| 9 | 009 MW-252 | | | | | 09/29/22 | 1157 | 4 | 2 | | | | | | | | | | | | | | | | 009 | |
| 10 | 010 MW-253 | | | | | 9/29/22 | 1653 | 4 | 2 | | | | | | | | | | | | | | | | 010 | |
| 11 | 011 MW-304 | | | | | 09/29/22 | 0958 | 4 | 2 | | | | | | | | | | | | | | | | 011 | |
| 12 | 012 MW-306 | | | | | 9/29/22 | 1818 | 4 | 2 | | | | | | | | | | | | | | | | 012 | |
| 13 | 013 MW-350 | | | | | 9/29/22 | 1527 | 4 | 2 | | | | | | | | | | | | | | | | 013 | |
| 14 | 014 MW-352 | | | | | 9/29/22 | 1930 | 4 | 2 | | | | | | | | | | | | | | | | 014 | |
| 15 | 015 MW-355 | | | | | 9/29/22 | 1732 | 4 | 2 | | | | | | | | | | | | | | | | 015 | |
| 16 | 016 MW-356 | | | | | 09/29/22 | 1457 | 2 | 1 | | | | | | | | | | | | | | | | 016 | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|-------|-------------------|
| BAL-Q3-2022 | [Signature] | 10/1/22 | 1035 | Allen in Cali | 10/3/22 | 10:50 | |

MW-152 collection time per field file. EAH 10/28/22

| SAMPLER NAME AND SIGNATURE | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|----------------------------|-------------|-------------------------|-----------------------|-----------------------------|----------------------|
| PRINT Name of SAMPLER: | [Signature] | | | | |
| SIGNATURE of SAMPLER: | [Signature] | DATE Signed (MM/DD/YY): | 09/30/22 | | |

Temp: 5.2 LTGib ULE
Phv83856. CBS 10-3-22.

22100038
22082027

CHAIN-OF-CUSTODY / Analytical Request Document

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

| | | | | | | | |
|--|--|---|--|--|--|---|--|
| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | | Page: 2 of 2 | |
| Company: Vistra Corp | | Report To: Brian Voelker | | Attention: Jason Stuckey | | REGULATORY AGENCY | |
| Address: 13498 E. 900th St | | Copy To: Jason Stuckey | | Company Name: Vistra Corp | | | |
| Email To: Brian.Voelker@VistraCorp.com | | Purchase Order No.: | | Address: see Section A | | NPDES GROUND WATER DRINKING WATER | |
| Phone: (217) 753-8911 Fax: | | Project Name: | | Quote Reference: | | UST RCRA OTHER | |
| Requested Due Date/TAT: standard | | Project Number: 2285 | | Project Manager: | | Site Location | |
| | | | | Profile #: | | STATE: IL | |

| ITEM # | Section O Required Client Information | | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G-GRAB C-COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | | Analysis Test | Requested Analysis Filtered (Y/N) | Residual Chlorine (Y/N) | Project No./ Lab I.D. | | | | | |
|--------|---|-----------------------------------|--|-----------------------------|-----------|-----------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-------|---------------|-----------------------------------|-------------------------|-----------------------|-------------|-------------|-----------------|---------------|--------------|
| | SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE | Valid Matrix Codes MATRIX CODE | | | DATE | TIME | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | | | | | BAL_257_601 | BAL_257_605 | BAL_CLOSURE_605 | BAL_NPDES_600 | BAL_WPCP_605 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 017 | MW-366 | 11.81 | | 09/30/22 | 1219 | 2 | 1 | | | | | | | | | | 22082027-017 | | | | | | | |
| 2 | 018 | MW-369 | | | 9.30.22 | 0908 | 2 | 1 | | | | | | | | | | 018 | | | | | | | |
| 3 | 019 | MW-370 | | | 09/30/22 | 0758 | 2 | 1 | | | | | | | | | | 019 | | | | | | | |
| 4 | 020 | MW-375 | 13304 | | 9.30.22 | 0758 1096 | 2 | 1 | | | | | | | | | | 020 | | | | | | | |
| 5 | 021 | MW-377 | | | 09/30/22 | 1414 | 2 | 1 | | | | | | | | | | 021 | | | | | | | |
| 6 | 022 | MW-382 | | | 9.30.22 | 0906 | 2 | 1 | | | | | | | | | | 022 | | | | | | | |
| 7 | 023 | MW-383 | | | 09/30/22 | 1056 | 2 | 1 | | | | | | | | | | 023 | | | | | | | |
| 8 | 024 | MW-384 | | | 9.30.22 | 1014 | 2 | 1 | | | | | | | | | | 024 | | | | | | | |
| 9 | 025 | MW-390 | | | 09/30/22 | 1A57 | 2 | 1 | | | | | | | | | | 025 | | | | | | | |
| 10 | 026 | MW-391 | 56-9 | | 09/30/22 | 1146 | 2 | 1 | | | | | | | | | | 026 | | | | | | | |
| 11 | 027 | OW-156 | | | 09/30/22 | 1502 | 1 | 1 | | | | | | | | | | 027 | | | | | | | |
| 12 | 028 | OW-157 | | | 09/30/22 | 1518 | 1 | 1 | | | | | | | | | | 028 | | | | | | | |
| 13 | 029 | TPZ-164 | | | 09/30/22 | 1602 | 2 | 1 | | | | | | | | | | 029 | | | | | | | |
| 14 | 030 | MW-304 Duplicate * | | | 09/30/22 | 0958 | 4 | 2 | 1 | | | | | | | | | 030 | | | | | | | |
| 15 | 031 | Field Blank * | | | 09/30/22 | 1500 | 4 | 2 | 2 | | | | | | | | | 031 | | | | | | | |

| | | | | | | | |
|---------------------|-------------------------------|---------|------|---------------------------|---------|-------|-------------------|
| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
| BAL-Q3-2022 | <i>[Signature]</i> | 10/1/22 | 1035 | <i>Allison Coltr</i> | 10/3/22 | 10:50 | |

* per Baldwin Quarterly GW project. EAH 8/31/22

| | | | | | |
|----------------------------|---------------------------|------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: | <i>Joe R. [Signature]</i> | | | | |
| SIGNATURE of SAMPLER: | <i>[Signature]</i> | | | | |
| DATE Signed (MM/DD/YY): | | 09/30/22 | | | |

November 10, 2022

Eric Bauer
Ramboll
234 W. Florida St.
5th Floor
Milwaukee, WI 53204
TEL: (414) 837-3614
FAX:



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

RE: Baldwin Groundwater Q3 2022

WorkOrder: 22082028

Dear Eric Bauer:

TEKLAB, INC received 17 samples on 10/3/2022 10:50:00 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
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

This reporting package includes the following:

| | |
|----------------------|----------|
| Cover Letter | 1 |
| Report Contents | 2 |
| Definitions | 3 |
| Case Narrative | 5 |
| Accreditations | 6 |
| Laboratory Results | 7 |
| Sample Summary | 24 |
| Dates Report | 25 |
| Receiving Check List | 26 |
| Chain of Custody | Appended |

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

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)

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)



Case Narrative

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

Cooler Receipt Temp: 5.2 °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.

This report was revised on November 10, 2022 per Eric Bauer's request. The reason for the revision is to correct report contact and the collection times of MW-350 and MW-304 Duplicate. Please replace report dated November 3, 2022 with this report. EAH 11/10/22

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
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

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

| State | Dept | Cert # | NELAP | Exp Date | Lab |
|-----------|------|---------|-------|-----------|--------------|
| Illinois | IEPA | 100226 | NELAP | 1/31/2023 | 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 | | 3/14/2023 | Collinsville |
| Illinois | IDPH | 17584 | | 5/31/2023 | Collinsville |
| Iowa | IDNR | 430 | | 6/1/2024 | Collinsville |
| Kentucky | UST | 0073 | | 1/31/2023 | Collinsville |
| Missouri | MDNR | 00930 | | 5/31/2023 | Collinsville |
| Missouri | MDNR | 930 | | 1/31/2025 | Collinsville |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-001
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-304
Collection Date: 09/29/2022 9:58

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-002
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-306
Collection Date: 09/29/2022 18:18

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-003
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-350
Collection Date: 09/29/2022 10:27

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-004
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-356
Collection Date: 09/30/2022 14:51

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-005
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-366
Collection Date: 09/30/2022 12:19

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-006
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-369
Collection Date: 09/30/2022 7:08

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-007
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-370
Collection Date: 09/30/2022 7:58

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-008
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-375
Collection Date: 09/30/2022 13:30

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-009
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-377
Collection Date: 09/30/2022 14:14

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-010
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-382
Collection Date: 09/30/2022 9:06

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-011
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-383
Collection Date: 09/30/2022 10:56

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-012
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-384
Collection Date: 09/30/2022 10:14

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-013
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-390
Collection Date: 09/30/2022 12:57

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-014
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-391
Collection Date: 09/30/2022 11:46

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-015
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: TPZ-164
Collection Date: 09/30/2022 16:02

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-016
Matrix: GROUNDWATER

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: MW-304 Duplicate
Collection Date: 09/29/2022 9:50

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Laboratory Results

<http://www.teklabinc.com/>

Client: Ramboll
Client Project: Baldwin Groundwater Q3 2022
Lab ID: 22082028-017
Matrix: AQUEOUS

Work Order: 22082028
Report Date: 10-Nov-22
Client Sample ID: Field Blank
Collection Date: 09/30/2022 15:00

| 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 | 10/18/2022 0:00 | R320507 |
| Radium-228 | * | 0 | | See Attached | pci/L | 1 | 10/18/2022 0:00 | R320507 |



Sample Summary

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

| Lab Sample ID | Client Sample ID | Matrix | Fractions | Collection Date |
|---------------|------------------|-------------|-----------|------------------|
| 22082028-001 | MW-304 | Groundwater | 1 | 09/29/2022 9:58 |
| 22082028-002 | MW-306 | Groundwater | 1 | 09/29/2022 18:18 |
| 22082028-003 | MW-350 | Groundwater | 1 | 09/29/2022 10:27 |
| 22082028-004 | MW-356 | Groundwater | 1 | 09/30/2022 14:51 |
| 22082028-005 | MW-366 | Groundwater | 1 | 09/30/2022 12:19 |
| 22082028-006 | MW-369 | Groundwater | 1 | 09/30/2022 7:08 |
| 22082028-007 | MW-370 | Groundwater | 1 | 09/30/2022 7:58 |
| 22082028-008 | MW-375 | Groundwater | 1 | 09/30/2022 13:30 |
| 22082028-009 | MW-377 | Groundwater | 1 | 09/30/2022 14:14 |
| 22082028-010 | MW-382 | Groundwater | 1 | 09/30/2022 9:06 |
| 22082028-011 | MW-383 | Groundwater | 1 | 09/30/2022 10:56 |
| 22082028-012 | MW-384 | Groundwater | 1 | 09/30/2022 10:14 |
| 22082028-013 | MW-390 | Groundwater | 1 | 09/30/2022 12:57 |
| 22082028-014 | MW-391 | Groundwater | 1 | 09/30/2022 11:46 |
| 22082028-015 | TPZ-164 | Groundwater | 1 | 09/30/2022 16:02 |
| 22082028-016 | MW-304 Duplicate | Groundwater | 1 | 09/29/2022 9:50 |
| 22082028-017 | Field Blank | Aqueous | 1 | 09/30/2022 15:00 |



Dates Report

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

| Sample ID | Client Sample ID | Collection Date | Received Date | Prep Date/Time | Analysis Date/Time |
|---------------------------------|------------------|------------------|------------------|----------------|--------------------|
| Test Name | | | | | |
| 22082028-001A | MW-304 | 09/29/2022 9:58 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-002A | MW-306 | 09/29/2022 18:18 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-003A | MW-350 | 09/29/2022 10:27 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-004A | MW-356 | 09/30/2022 14:51 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-005A | MW-366 | 09/30/2022 12:19 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-006A | MW-369 | 09/30/2022 7:08 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-007A | MW-370 | 09/30/2022 7:58 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-008A | MW-375 | 09/30/2022 13:30 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-009A | MW-377 | 09/30/2022 14:14 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-010A | MW-382 | 09/30/2022 9:06 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-011A | MW-383 | 09/30/2022 10:56 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-012A | MW-384 | 09/30/2022 10:14 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-013A | MW-390 | 09/30/2022 12:57 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-014A | MW-391 | 09/30/2022 11:46 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-015A | TPZ-164 | 09/30/2022 16:02 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-016A | MW-304 Duplicate | 09/29/2022 9:50 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |
| 22082028-017A | Field Blank | 09/30/2022 15:00 | 10/03/2022 10:50 | | |
| EPA 903.0/904.0, Radium 226/228 | | 10/18/2022 0:00 | | | |



Receiving Check List

<http://www.teklabinc.com/>

Client: Ramboll

Work Order: 22082028

Client Project: Baldwin Groundwater Q3 2022

Report Date: 10-Nov-22

Carrier: Joe Riley

Received By: ANC

Completed by:

Reviewed by:

On:

On:

03-Oct-22

03-Oct-22

Payton Yoch

Marvin L. Darling

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 5.2 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input type="checkbox"/> | Lab <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Any No responses must be detailed below or on the COC.

pH strip 83856 - CET/pyoch - 10/3/2022 2:00:41 PM

Additional Nitric Acid (83726) was needed in MW-356, MW-375, MW-383, MW-384, and MW-391 upon arrival at the laboratory. - CET/pyoch - 10/3/2022 2:01:48 PM

November 10, 2022

Revised Report

TEKLAB, Inc.

Sample Delivery Group: L1543671
Samples Received: 10/06/2022
Project Number: 22082028
Description:

Report To: Elizabeth Hurley
5445 Horseshoe Lake Road
Collinsville, IL 62234

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Mark W. Beasley
Project Manager

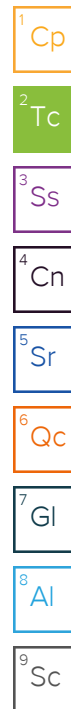
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory 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.

Pace Analytical National

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

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SAMPLE SUMMARY

22082028-001 L1543671-01 Non-Potable Water

Collected by _____ Collected date/time 09/29/22 09:58 Received date/time 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |



22082028-002 L1543671-02 Non-Potable Water

Collected by _____ Collected date/time 09/29/22 18:18 Received date/time 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-003 L1543671-03 Non-Potable Water

Collected by _____ Collected date/time 09/29/22 15:27 Received date/time 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-004 L1543671-04 Non-Potable Water

Collected by _____ Collected date/time 09/30/22 14:51 Received date/time 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-005 L1543671-05 Non-Potable Water

Collected by _____ Collected date/time 09/30/22 12:19 Received date/time 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-006 L1543671-06 Non-Potable Water

Collected by _____ Collected date/time 09/30/22 07:08 Received date/time 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

22082028-007 L1543671-07 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 07:58 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

22082028-008 L1543671-08 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 13:30 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

22082028-009 L1543671-09 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 14:14 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

7 Gl

8 Al

9 Sc

22082028-010 L1543671-10 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 09:06 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-011 L1543671-11 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 10:56 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-012 L1543671-12 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 10:14 10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

SAMPLE SUMMARY

22082028-013 L1543671-13 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 12:57
10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

22082028-014 L1543671-14 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 11:46
10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

4 Cn

5 Sr

6 Qc

22082028-015 L1543671-15 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 16:02
10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

7 Gl

8 Al

9 Sc

22082028-016 L1543671-16 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/29/22 09:58
10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

22082028-017 L1543671-17 Non-Potable Water

Collected by
Collected date/time
Received date/time

09/30/22 15:00
10/06/22 10:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Radiochemistry by Method 904/9320 | WG1942141 | 1 | 10/13/22 14:02 | 10/18/22 11:22 | SWM | Mt. Juliet, TN |
| Radiochemistry by Method Calculation | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |
| Radiochemistry by Method SM7500Ra B M | WG1940112 | 1 | 10/14/22 15:54 | 10/18/22 16:54 | RGT | Mt. Juliet, TN |

CASE NARRATIVE

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



Mark W. Beasley
Project Manager

Report Revision History

Level II Report - Version 1: 10/31/22 17:10
Level II Report - Version 2: 11/02/22 22:17

Project Narrative

Revised sample ID and times

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.307 | J | 0.187 | 0.342 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 92.4 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 104 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.616 | | 0.341 | 0.498 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.309 | J | 0.285 | 0.362 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 87.9 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.197 | J | 0.161 | 0.298 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 101 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 101 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.241 | J | 0.200 | 0.374 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0436 | U | 0.119 | 0.226 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 91.6 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.622 | | 0.182 | 0.319 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 99.8 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 102 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.43 | | 0.389 | 0.412 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.805 | | 0.344 | 0.261 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 91.2 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.250 | <u>U</u> | 0.174 | 0.339 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 101 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 109 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.350 | <u>J</u> | 0.301 | 0.401 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.350 | | 0.245 | 0.215 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 82.2 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

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 | 0.378 | | 0.173 | 0.312 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 96.3 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 107 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.485 | | 0.234 | 0.392 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.107 | J | 0.158 | 0.237 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 87.8 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.177 | J | 0.184 | 0.340 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 92.1 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 108 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.393 | | 0.259 | 0.392 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.216 | | 0.182 | 0.196 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 88.3 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.673 | | 0.169 | 0.291 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 101 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 105 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.07 | | 0.308 | 0.378 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.401 | | 0.258 | 0.241 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 90.8 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.129 | <u>U</u> | 0.172 | 0.320 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 99.3 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 101 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.389 | | 0.250 | 0.358 | 10/18/2022 16:54 | WG1940112 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.261 | | 0.182 | 0.160 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 90.3 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.395 | <u>U</u> | 0.315 | 0.600 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 80.2 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 94.6 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.250 | <u>U</u> | 0.382 | 0.652 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.250 | <u>J</u> | 0.216 | 0.256 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 90.4 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.728 | | 0.354 | 0.635 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 62.4 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 105 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.07 | | 0.420 | 0.663 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.343 | | 0.226 | 0.189 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 88.5 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.437 | J | 0.244 | 0.440 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 94.2 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 110 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.437 | J | 0.294 | 0.555 | 10/18/2022 16:54 | WG1940112 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.000 | U | 0.164 | 0.338 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 86.7 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.0933 | <u>U</u> | 0.235 | 0.435 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 91.7 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 103 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.266 | <u>J</u> | 0.325 | 0.541 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.173 | <u>J</u> | 0.225 | 0.322 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 87.3 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.514 | J | 0.311 | 0.563 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 95.6 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 84.5 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.827 | | 0.405 | 0.637 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.312 | | 0.260 | 0.299 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 86.6 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.667 | | 0.281 | 0.502 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 92.6 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 105 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 1.01 | | 0.373 | 0.565 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.342 | | 0.246 | 0.259 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 90.1 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | -0.0403 | <u>U</u> | 0.260 | 0.488 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 84.7 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 102 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.161 | <u>U</u> | 0.324 | 0.556 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.161 | <u>J</u> | 0.193 | 0.266 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 87.6 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.136 | <u>U</u> | 0.217 | 0.401 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 97.3 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 107 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.142 | <u>U</u> | 0.267 | 0.500 | 10/18/2022 16:54 | WG1940112 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|---------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.00661 | <u>U</u> | 0.156 | 0.298 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 92.7 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Radiochemistry by Method 904/9320

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-228 | 0.307 | J | 0.231 | 0.421 | 10/18/2022 11:22 | WG1942141 |
| (T) Barium | 101 | | | 30.0-143 | 10/18/2022 11:22 | WG1942141 |
| (T) Yttrium | 106 | | | 30.0-136 | 10/18/2022 11:22 | WG1942141 |

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|-----------------|--------|-----------|-------------|-------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| Combined Radium | 0.381 | J | 0.258 | 0.457 | 10/18/2022 16:54 | WG1940112 |

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

| Analyte | Result | Qualifier | Uncertainty | MDA | Analysis Date | Batch |
|----------------|--------|-----------|-------------|----------|------------------|---------------------------|
| | pCi/l | | + / - | pCi/l | date / time | |
| RADIUM-226 | 0.0738 | J | 0.114 | 0.178 | 10/18/2022 16:54 | WG1940112 |
| (T) Barium-133 | 90.1 | | | 30.0-143 | 10/18/2022 16:54 | WG1940112 |

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3850543-1 10/18/22 11:22

| Analyte | MB Result pCi/l | MB Qualifier | MB Uncertainty + / - | MB MDA pCi/l |
|-------------|--------------------|--------------|-------------------------|-----------------|
| Radium-228 | -0.232 | <u>U</u> | 0.155 | 0.300 |
| (T) Barium | 85.5 | | 85.5 | |
| (T) Yttrium | 103 | | 103 | |

L1536453-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1536453-29 10/18/22 11:22 • (DUP) R3850543-5 10/18/22 11:22

| Analyte | Original Result pCi/l | Original Uncertainty + / - | Original MDA pCi/l | DUP Result pCi/l | DUP Uncertainty + / - | DUP MDA pCi/l | Dilution | DUP RPD % | DUP RER | DUP Qualifier | DUP RPD Limits % | DUP RER Limit |
|-------------|--------------------------|-------------------------------|-----------------------|---------------------|--------------------------|------------------|----------|--------------|---------|---------------|---------------------|---------------|
| Radium-228 | 1.16 | 0.185 | 0.303 | 1.10 | 0.286 | 0.303 | 1 | 5.76 | 0.191 | | 20 | 3 |
| (T) Barium | 98.1 | | | 90.3 | 90.3 | | | | | | | |
| (T) Yttrium | 111 | | | 104 | 104 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3850543-2 10/18/22 11:22

| Analyte | Spike Amount pCi/l | LCS Result pCi/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|-------------|-----------------------|---------------------|---------------|------------------|---------------|
| Radium-228 | 5.00 | 4.72 | 94.3 | 80.0-120 | |
| (T) Barium | | | 89.8 | | |
| (T) Yttrium | | | 102 | | |

L1536453-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1536453-28 10/18/22 11:22 • (MS) R3850543-3 10/18/22 11:22 • (MSD) R3850543-4 10/18/22 11:22

| Analyte | Spike Amount pCi/l | Original Result pCi/l | MS Result pCi/l | MSD Result pCi/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | MS RER | RPD Limits % |
|-------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|--------|-----------------|
| Radium-228 | 16.7 | 2.84 | 14.6 | 15.5 | 70.4 | 75.7 | 1 | 70.0-130 | | | 5.85 | | 20 |
| (T) Barium | | 97.2 | | | 100 | 104 | | | | | | | |
| (T) Yttrium | | 105 | | | 108 | 109 | | | | | | | |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3854855-1 10/18/22 16:54

| Analyte | MB Result | MB Qualifier | MB Uncertainty | MB MDA |
|----------------|-----------|--------------|----------------|--------|
| | pCi/l | | + / - | pCi/l |
| Radium-226 | 0.00568 | <u>U</u> | 0.0342 | 0.0687 |
| (T) Barium-133 | 91.3 | | 91.3 | |

L1543671-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1543671-01 10/18/22 16:54 • (DUP) R3854855-5 10/18/22 16:54

| 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 | 0.309 | 0.285 | 0.362 | 0.318 | 0.255 | 0.362 | 1 | 2.87 | 0.0235 | | 20 | 3 |
| (T) Barium-133 | 87.9 | | | 89.9 | 89.9 | | | | | | | |

Laboratory Control Sample (LCS)

(LCS) R3854855-2 10/18/22 16:54

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------------|--------------|------------|----------|-------------|---------------|
| | pCi/l | pCi/l | % | % | |
| Radium-226 | 5.02 | 5.15 | 103 | 80.0-120 | |
| (T) Barium-133 | | | 93.5 | | |

L1543676-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1543676-02 10/18/22 16:54 • (MS) R3854855-3 10/18/22 16:54 • (MSD) R3854855-4 10/18/22 16:54

| 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 | 0.195 | 20.3 | 20.2 | 101 | 100 | 1 | 75.0-125 | | | 0.493 | | 20 |
| (T) Barium-133 | | 87.1 | | | 87.6 | 91.9 | | | | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier Description

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|-------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina ¹ | DW21704 |
| Georgia | NELAP | North Carolina ³ | 41 |
| Georgia ¹ | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky ^{1,6} | KY90010 | South Carolina | 84004002 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee ^{1,4} | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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: QC Level:

Project#

Comments:
 Please analyze for Radium 226/228 on your standard turn around time.
 Samples collected from an MO site.
 Batch QC is required for all analyses requested. EDD requested..

Contact: Email:
 Requested Due Date: Billing/PO:

Phone:

L1543671

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 | 22082028 - 001 | 9-29-22 0958 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -02 | 22082028 - 002 | 9-29-22 1815 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -03 | 22082028 - 002 | 9-29-22 1027 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -04 | 22082028 - 004 | 9-29-22 1451 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -05 | 22082028 - 005 | 9-30-22 1219 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -06 | 22082028 - 006 | 9-30-22 0708 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -07 | 22082028 - 007 | 9-30-22 0755 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -08 | 22082028 - 008 | 9-30-22 1330 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -09 | 22082028 - 009 | 9-30-22 1414 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -10 | 22082028 - 010 | 9-30-22 0906 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| -11 | 22082028 - 011 | 9-30-22 1056 | HNO3 | Groundwater | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | |
|------------------|-----------|-----------------|-------------------------|
| *Relinquished By | Date/Time | Received By | Date/Time |
| | | <i>Zac P...</i> | 10-06-22 09:00 10:30 AM |
| H019 | | | |

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: QC Level:

Project#

Comments:
Please analyze for Radium 226/228 on your standard turn around time.
Samples collected from an MO site.
Batch QC is required for all analyses requested. EDD requested..

Contact: Email:
Requested Due Date: Billing/PO:

Phone:

LFH3671

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 | | | | | | | | | | | | | | | |
|---------|----------------|------------------|--------------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| -12 | 22082028 - 012 | 9-30-22 1014 | HNO3 | Groundwater | ✓ | | | | | | | | | | | | | | | |
| -13 | 22082028 - 013 | 9-30-22 1257 | HNO3 | Groundwater | ✓ | | | | | | | | | | | | | | | |
| -14 | 22082028 - 014 | 9-30-22 1146 | HNO3 | Groundwater | ✓ | | | | | | | | | | | | | | | |
| -15 | 22082028 - 015 | 9-30-22 1602 | HNO3 | Groundwater | ✓ | | | | | | | | | | | | | | | |
| -16 | 22082028 - 016 | 9-29-22 0950 | HNO3 | Groundwater | ✓ | | | | | | | | | | | | | | | |
| -17 | 22082028 - 017 | 9-30-22 1500 | HNO3 | Groundwater | ✓ | | | | | | | | | | | | | | | |

Sample Receipt Checklist

GOC Seal Present/Intact: Y N If Applicable: Y N
 GOC Signed/Accurate: Y N VOA Zero Headspace: Y N
 Bottles arrive intact: Y N Pres. Correct/Check: Y N
 Correct bottles used: Y N HNO3 N Groundwater N
 Sufficient volume sent: Y N N Groundwater N
 RAD Screen <0.5 mR/hr: Y N N Groundwater N

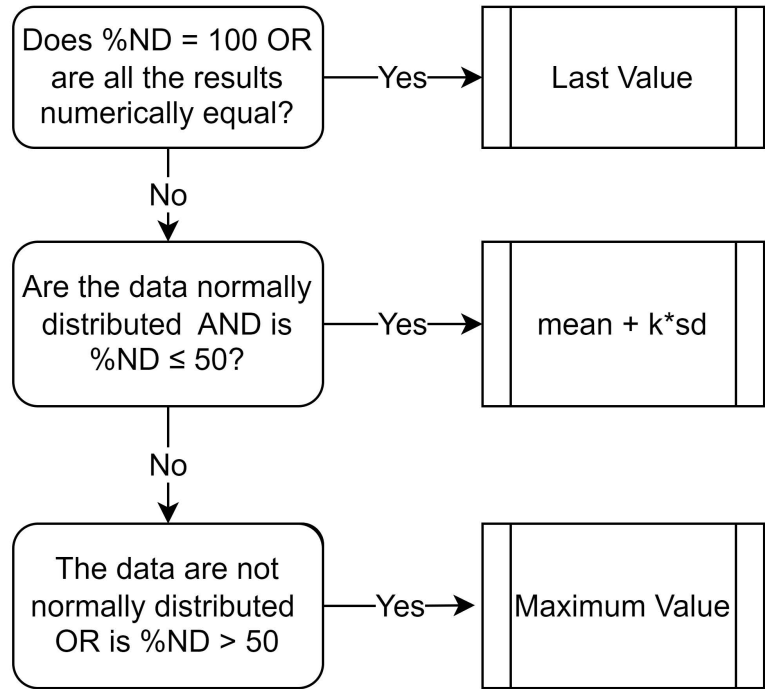
| *Relinquished By | Date/Time | Received By | Date/Time |
|------------------|-----------|-----------------|----------------|
| | | <i>Joe P...</i> | 10-06-22 10:30 |
| | | | |
| | | | |

1643671

| Tracking Numbers | | Temperature |
|------------------|--|------------------------|
| S 0821 5898 1537 | | 18.4 +0 = 18.4 GBA6 |
| 5821 5898 1548 | | 20.1 +0 = 20.1 GBA6 |
| 5821 5898 1559 | | 17.5 +0 = 17.5 GBA6 |
| 5821 5898 1581 | | 19.6 +0 = 19.6 GBA6 |
| 5821 5898 1570 | | 15.0 +0 = 15.0 GBA6 |
| 5821 5898 1560 | | 19.3 +0 = 19.3 GBA6 |

**APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF
BACKGROUND VALUES**

| Notes |
|---|
| %ND = Percent non-detected samples |
| sd = standard deviation |
| k = kappa for tolerance limit (95% confidence/95% coverage) |



**APPENDIX C
STATISTICAL METHODOLOGY FOR DETERMINATION OF
STATISTICALLY SIGNIFICANT LEVELS**

| Notes |
|---|
| %ND = Percent non-detected samples |
| Future Median = Median of most recent 3 samples |
| MK = Mann-Kendall Trend Test |
| <u>Alpha Levels</u> |
| Normality = 0.01 |
| MK Trend = 0.01 |
| Residuals = 0.01 |
| Confidence Interval = 0.01 |

