

ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
ASH POND
A.B. BROWN GENERATING STATION
POSEY COUNTY, INDIANA

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Table of Contents

	Page
List of Tables	ii
List of Figures	ii
List of Appendices	ii
1. Annual Groundwater Monitoring Report Summary	1
1.1 CODE OF FEDERAL REGULATIONS TITLE 40 (40 CFR) § 257.90(E)(6) SUMMARY	1
1.1.1 40 CFR § 257.90(e)(6)(i) – Status of Monitoring Program at start of reporting period	1
1.1.2 40 CFR § 257.90(e)(6)(ii) – Status of Monitoring Program at End of Reporting Period	1
1.1.3 40 CFR § 257.90(e)(6)(iii) – Statistically Significant Increases	1
1.1.4 40 CFR § 257.90(e)(6)(iv) – Statistically Significant Levels	2
1.1.5 40 CFR § 257.90(e)(6)(v) – Selection of Remedy	2
1.1.6 40 CFR § 257.90(e)(6)(vi) – Remedial Activities	3
1.2 40 CFR § 257.90(A)	3
1.3 40 CFR § 257.90(E) – SUMMARY	3
1.3.1 Status of the Groundwater Monitoring Program	4
1.3.2 Key Actions Completed	4
1.3.3 Problems Encountered	5
1.3.4 Actions to Resolve Problems	5
1.3.5 Project Key Activities for Upcoming Year	6
1.4 40 CFR § 257.90(E) – INFORMATION	6
1.4.1 40 CFR § 257.90(e)(1)	6
1.4.2 40 CFR § 257.90(e)(2)	6
1.4.3 40 CFR § 257.90(e)(3)	7
1.4.4 40 CFR § 257.90(e)(4)	7
1.4.5 40 CFR § 257.90(e)(5)	7

List of Tables

Table No.	Title
1	Groundwater Monitoring Well Location and Construction Details
2	Summary of Groundwater Quality Data – May and November 2025

List of Figures

Figure No.	Title
1	Groundwater Monitoring Well Locations – Ash Pond
2	Shallow Groundwater Elevation Contour – Ash Pond – May 5, 2025
3	Shallow Groundwater Elevation Contour – Ash Pond – November 3, 2025

List of Appendices

Appendix	Title
A	Summary of Statistical Analysis
B	Field Forms
C	Laboratory Analytical Reports
D	Hydraulic Characterization
E	Well Installation Logs

1. Annual Groundwater Monitoring Report Summary

1.1 CODE OF FEDERAL REGULATIONS TITLE 40 (40 CFR) § 257.90(e)(6) SUMMARY

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 [coal combustion residual] CCR unit. At a minimum, the summary must specify all of the following.

1.1.1 40 CFR § 257.90(e)(6)(i) – Status of Monitoring Program at start of reporting period

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.

At the start of the current annual reporting period (January 1, 2025), the Ash Pond at A.B. Brown Generating Station (ABB) was operating under an assessment monitoring program in compliance with 40 CFR § 257.95.

1.1.2 40 CFR § 257.90(e)(6)(ii) – Status of Monitoring Program at End of Reporting Period

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.

At the end of the current annual reporting period (December 31, 2025), the Ash Pond was operating under an assessment monitoring program in compliance with 40 CFR § 257.95.

1.1.3 40 CFR § 257.90(e)(6)(iii) – Statistically Significant Increases

If it was determined that there was a statistically significant increase over background for one or more constituents listed in appendix III to this part pursuant to § 257.94(e).

1.1.3.1 40 CFR § 257.90(e)(6)(iii)(A)

Identify those constituents listed in appendix III to this part and the names of the monitoring wells associated with such an increase.

The Ash Pond is operating under an assessment monitoring program; therefore, no statistical evaluations were conducted on Appendix III constituents in 2025.

1.1.3.2 40 CFR § 257.90(e)(6)(iii)(B)

Provide the date when the assessment monitoring program was initiated for the CCR unit.

An assessment monitoring program was established on August 15, 2018, for the Ash Pond to meet the requirements of 40 CFR § 257.95. The Ash Pond has remained in assessment monitoring since that time.

1.1.4 40 CFR § 257.90(e)(6)(iv) – Statistically Significant Levels

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

1.1.4.1 40 CFR § 257.90(e)(6)(iv)(A) – Statistically Significant Level Constituents

Identify those constituents listed in appendix IV to this part and the names of the monitoring wells associated with such an increase.

Statistical analyses of appendix IV constituents were completed in 2025 following the November 2024 and May 2025 semiannual assessment monitoring sampling events as described in 40 CFR § 257.93(h)(2) and statistically significant levels (SSLs) of lithium (CCR-AP-3R) and molybdenum (CCR-AP-2R and CCR-AP-3R) continue to be identified downgradient of the Ash Pond. New SSLs of molybdenum were identified at monitoring location CCR-AP-5R after the May 2025 sampling event. A summary of statistical analysis is provided in Appendix A.

1.1.4.2 40 CFR § 257.90(e)(6)(iv)(B) – Initiation of the Assessment of Corrective Measures

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

Assessment of corrective measures was initiated on May 15, 2019, for the Ash Pond.

1.1.4.3 40 CFR § 257.90(e)(6)(iv)(C) – Assessment of Corrective Measures Public Meeting

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

The public was given the opportunity to comment on the assessment of corrective measures prepared for the Ash Pond during a public meeting held on October 18, 2021.

1.1.4.4 40 CFR § 257.90(e)(6)(iv)(D) – Completion of the Assessment of Corrective Measures

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

The assessment of corrective measures was completed on September 13, 2019, and placed into the facility's operating record, followed by being posted to the facility's publicly available website, and notification sent to the state agency.

1.1.5 40 CFR § 257.90(e)(6)(v) – Selection of Remedy

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

The selection of remedy required under 40 CFR § 257.97 was ongoing in 2025 for molybdenum and lithium at the Ash Pond. A summary of actions completed associated with selection of remedy are

provided in the March 2025 and September 2025 Semi-Annual Remedy Selection Progress Reports. Information collected through bench testing results, geochemical data analysis, and hydrogeologic characterization was used to develop a site-specific conceptual model assessing the feasibility of in-situ redox manipulation. A pilot study was implemented at monitoring location CCR-AP-3R on August 29, 2025, and is currently ongoing at the end of the 2025 reporting period.

1.1.6 40 CFR § 257.90(e)(6)(vi) – Remedial Activities

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

Source removal for the purpose of beneficial reuse is underway and source removal is anticipated to be part of the remedy; however, the selection of remedy has not yet been completed due to ongoing work to analyze remedial activities for site suitability. Remedial activities were not initiated in 2025; therefore, no demonstration or certification is applicable for this unit.

1.2 40 CFR § 257.90(a)

Except as provided for in § 257.100 for inactive CCR surface impoundments, all CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under § 257.90 through § 257.98.

The Ash Pond at ABB is subject to the groundwater monitoring and corrective action requirements described under 40 CFR § 257.90 through § 257.98 (the Rule). The remainder of this document addresses the specific requirement for the Owner/Operator to prepare an Annual Groundwater Monitoring and Corrective Action Report per 40 CFR § 257.90(e).

1.3 40 CFR § 257.90(e) – SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This 2025 Annual Groundwater Monitoring and Corrective Action Report documents the activities completed in 2025 for the Ash Pond as required by the Rule. Semiannual groundwater sampling and analysis was conducted per the requirements described in 40 CFR § 257.93, and the status of the

groundwater monitoring program described in 40 CFR § 257.95 is provided in this report. Field forms for the groundwater sampling events are provided in Appendix B. Laboratory analytical reports are provided in Appendix C.

1.3.1 Status of the Groundwater Monitoring Program

Following the completion of the Assessment of Corrective Measures in September 2019, a semiannual groundwater sampling plan was implemented to satisfy requirements of 40 CFR § 257.95(b) and § 257.95(d)(1). Groundwater samples were collected from monitoring wells at the Ash Pond from May 6 and 7, 2025, and again from November 5 to 7, 2025. Location and construction details of the existing monitoring well network for the Ash Pond is provided for reference in Table 1.

Statistical analysis of Appendix IV constituents collected during the November 2024 sampling event was completed on March 12, 2025, within 90-days following the receipt of laboratory analytical results on December 22, 2024, per the requirements of 40 CFR § 257.93(h)(2). Statistical analysis of Appendix IV constituents collected during the May 2025 sampling event was completed on September 10, 2025, within 90-days following the receipt of laboratory analytical results on June 13, 2025, per the requirements of 40 CFR § 257.93(h)(2). Statistical analysis of Appendix IV constituents collected during the November 2025 sampling event will be completed within the 2026 reporting period and will be included in the 2026 annual report.

Statistical analysis of Appendix IV constituents during the 2025 reporting period determined that SSLs of lithium and molybdenum remain downgradient of the Ash Pond, which is consistent with previous findings. The selection of remedy process required under 40 CFR § 257.97 continued, as discussed in Section 1.1.5, during the 2025 reporting period.

1.3.2 Key Actions Completed

The following key actions were completed in 2025:

- January 31, 2025 – Prepared *2024 Annual Groundwater Monitoring and Corrective Action Report* (2024 Annual Report) including:
 - Pursuant to 40 CFR § 257.105(h)(1), the 2024 Annual Report was placed in the facility’s operating record on January 31, 2025;
 - Pursuant to 40 CFR § 257.107(h)(1), the 2024 Annual Report was posted to the CCR Website within 30 days of the 2024 Annual Report being placed in the facility’s operating record [§ 257.107(d) and 257.107(h)(1)];
 - Pursuant to 40 CFR § 257.106(h)(1), the notification was sent to the relevant State Director and/or Tribal authority within 30 days of the 2024 Annual Report being placed in the facility’s operating record and following posting to the CCR webpage [40 CFR § 257.106(d)].
- March 12, 2025 – Completed statistical analysis of November 2024 assessment monitoring following receipt of laboratory analytical results on December 22, 2024.
- March 15, 2025 – Prepared semiannual selection of remedy progress report in accordance with 40 CFR § 257.97(a) to document progress. The semiannual progress report was placed in the operating record as required by 40 CFR § 257.105(h)(12) and posted on the facility’s publicly available website as required by 40 CFR § 257.107(h)(9).

- May 5, 2025 – Measured static water levels in groundwater monitoring wells at the site before beginning the May 2025 sampling event and again immediately prior to collecting each sample to evaluate groundwater flow direction and rate per the requirements of 40 CFR § 257.93(c).
- May 6 and 7, 2025 – Collected groundwater samples from monitoring wells at the Ash Pond for laboratory analysis in accordance with 40 CFR § 257.95.
- May 23, 2025 – Completed the design of a pilot study to evaluate the feasibility of in-situ redox manipulation (ISRM) as an alternative remedy.
- July 15, 2025 – Completed the installation of an injection/extraction well network to facilitate the implementation of the pilot study design.
- July 25, 2025 – Completed the installation of two additional piezometers (FD-PZ-5 and FD-PZ-6) to support additional nature and extent evaluation and further characterization of the French Drain system downgradient of the Ash Pond.
- July 28, 2025 – Performed hydraulic testing on select Ash Pond and pilot study wells to refine aquifer parameter estimates to support pilot study design and implementation. Hydraulic testing results are provided in Appendix D.
- August 29, 2025 – Initiated the pilot study to evaluate the feasibility of ISRM as an alternative remedy. Performance monitoring of the pilot study ISRM system is ongoing at the end of the 2025 reporting period.
- September 10, 2025 – Completed statistical analysis of May 2025 assessment monitoring following receipt of laboratory analytical results on June 13, 2025.
- September 12, 2025 – Prepared semiannual selection of remedy progress report in accordance with 40 CFR § 257.97(a) to document progress. The semiannual progress report was placed in the operating record as required by 40 CFR § 257.105(h)(12) and posted on the facility’s publicly available website as required by 40 CFR § 257.107(h)(9).
- November 3, 2025 – Measured static water levels in groundwater monitoring wells at the site before beginning the November 2025 sampling event and again immediately prior to collecting each sample to evaluate groundwater flow direction and rate per the requirements of 40 CFR § 257.93(c).
- November 5 to 7, 2025 – Collected groundwater samples from monitoring wells at the Ash Pond for laboratory analysis in accordance with 40 CFR § 257.95.

1.3.3 Problems Encountered

Problems encountered during the May 2025 and November 2025 sampling events include:

- No problems were encountered at the Ash Pond during the 2025 reporting period.

1.3.4 Actions to Resolve Problems

No actions were taken as no problems were encountered during the 2025 reporting period.

1.3.5 Project Key Activities for Upcoming Year

Key activities to be completed in 2026 include the following:

- Continue semiannual groundwater monitoring in accordance with 40 CFR § 257.95.
- Complete statistical analysis of the semiannual groundwater sampling results within 90-days of sampling and analysis as required by 40 CFR § 257.93(h)(2).
- Select a remedy that, at a minimum, meets the standards outlined in 40 CFR § 257.97(b) and considers the evaluation factors in 40 CFR § 257.97(c).
- As part of the selected remedy the Southern Indiana Gas and Electric Company will develop a schedule for implementing and completing remedial activities as defined in 40 CFR § 257.97(d).
- Prepare semiannual and annual progress reports, as necessary, describing the progress in selecting and designing the remedy as outlined in 40 CFR § 257.97(a).
- Following remedy selection, initiate remedial activities and implement the corrective action groundwater monitoring program as outlined in 40 CFR § 257.98.
- Continue performance monitoring of the pilot study for the feasibility of ISRM as an alternative remedy and evaluate results to inform the selection of remedy.

1.4 40 CFR § 257.90(e) – INFORMATION

At a minimum, the annual groundwater monitoring and corrective action report must contain the following information, to the extent available.

1.4.1 40 CFR § 257.90(e)(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.

As required by 40 CFR § 257.90(e)(1), a map showing the locations of the Ash Pond and associated upgradient, downgradient, and nature and extent monitoring wells is presented on Figure 1. Groundwater elevation contours for the May 2025 sampling event are presented on Figure 2. Groundwater elevation contours created for the November 2025 sampling event are presented on Figure 3.

1.4.2 40 CFR § 257.90(e)(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.

French Drain piezometers FD-PZ-5 and FD-PZ-6 were installed to support nature and extent and additional characterization of the French Drain system downgradient of the Ash Pond. These piezometers are located within an area of interest downgradient from CCR-AP-2R which has SSLs of molybdenum and may be used to support selection of remedy. Well construction details are provided in Table 1 and installation logs are provided in Appendix E.

1.4.3 40 CFR § 257.90(e)(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.

In accordance with 40 CFR § 257.95(b) and § 257.95(d)(1), two independent samples from each background and downgradient monitoring well were collected and analyzed. A summary table including the sample names, dates of sample collection, reason for sample collection (detection or assessment), and monitoring data obtained for the groundwater monitoring program for the Ash Pond is presented in Table 2.

1.4.4 40 CFR § 257.90(e)(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 over background levels).

Statistical analysis of Appendix IV constituents was completed for the November 2024 and May 2025 sampling events as described in 40 CFR § 257.93(h)(2) and demonstrate that lithium and molybdenum continue to be the only constituents at SSLs to be observed downgradient of the Ash Pond, consistent with previous results. As a result, the monitoring program did not change, and the Ash Pond remained in assessment monitoring throughout 2025. Statistical analysis for the November 2025 sampling event is ongoing and will be completed within 90-days after sampling and analysis to determine if a statistically significant increase over background has occurred.

1.4.5 40 CFR § 257.90(e)(5)

Other information required to be included in the annual report as specified in § 257.90 through § 257.98.

Other information including development of groundwater protection standards, recording of groundwater monitoring results in the operating record, and an evaluation of alternate sources was discussed in prior annual reports.

TABLES

TABLE 1
GROUNDWATER MONITORING WELL LOCATION AND CONSTRUCTION DETAILS
 ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

Well	Date Installed	Easting	Northing	Top of Pad Elevation (ft NAVD88)	Top of Riser Elevation (ft NAVD88)	Surface Grout (ft bgs)	Bentonite (ft bgs)	Sand Pack (ft bgs)	Screen Zone (ft bgs)	Screen Length (ft)	Well Radius (in.)	Bottom of Well Elevation (ft NAVD88)	Status
Background Wells													
CCR-BK-1R	March 2016	2770919.15	974083.30	480.10	483.39	2.0 - 50.0	50.0 - 52.0	52.0 - 64.0	54.00 - 64.00	10	2	416.10	Active
CCR-BK-2	March 2016	2769728.14	972854.33	427.50	430.60	1.0 - 11.5	11.5 - 13.5	13.5 - 25.5	15.50 - 25.50	10	2	402.00	Active
Ash Pond Wells													
CCR-AP-1R	July 2016	2773560.69	968260.66	464.70	467.57	0.0 - 23.0	23.0 - 25.0	25.0 - 37.0	27.00 - 37.00	10	2	427.70	Active
CCR-AP-2R	July 2016	2771922.60	969078.86	465.40	468.13	0.0 - 39.0	39.0 - 41.0	41.0 - 53.0	43.30 - 53.30	10	2	412.10	Active
CCR-AP-2IR	January 2019	2771920.00	969076.29	465.80	465.79	1.0 - 79.5	79.5 - 81.30	81.30 - 93.30	83.60 - 93.60	10	2	372.20	Active
CCR-AP-3R	July 2016	2771404.36	966865.11	450.10	449.41	0.0 - 33.0	33.0 - 35.0	35.0 - 47.0	37.00 - 47.00	10	2	403.10	Active
CCR-AP-3I	January 2019	2771402.78	966870.51	450.35	450.02	0.0 - 63.5	63.5 - 67.5	67.5 - 77.8	67.50 - 77.50	10	2	372.85	Active
CCR-AP-4R	July 2016	2772826.89	966741.38	472.80	475.38	2.0 - 34.0	34.0 - 36.0	36.0 - 48.0	38.00 - 48.00	10	2	424.80	Active
CCR-AP-5R	March 2016	2771019.65	968165.74	453.20	453.14	1.0 - 31.0	31.0 - 33.0	33.0 - 45.0	35.00 - 45.00	10	2	408.20	Active
CCR-AP-6	March 2016	2771626.76	969932.63	458.80	461.36	1.0 - 25.0	25.0 - 27.0	27.0 - 39.0	29.00 - 39.00	10	2	419.80	Active
CCR-AP-7R	July 2016	2773501.83	970758.52	486.00	488.57	2.0 - 39.5	39.5 - 41.5	41.5 - 53.5	43.50 - 53.50	10	2	432.50	Active
CCR-AP-8	January 2019	2770494.98	970020.44	413.64	416.84	0.0 - 2.0	2.0 - 4.2	4.2 - 16.5	6.20 - 16.20	10	2	397.44	Active
CCR-AP-9	January 2019	2769689.49	967509.74	391.40	391.14	0.0 - 19.5	19.5 - 22.5	22.5 - 35.5	25.20 - 35.20	10	2	356.20	Active
CCR-AP-10	January 2019	2771402.78	969079.21	471.13	474.01	0.0 - 29.2	29.2 - 31.2	31.2 - 43.5	33.20 - 43.20	10	2	427.93	Active
CCR-AP-11	May 2020	2768459.21	967930.60	373.64	376.72	0.0 - 12.0	12.0 - 14.0	14.0 - 26.0	16.00 - 26.00	10	2	347.64	Active
Ash Pond Piezometers													
HA-PP-1*	May 2020	2769934.70	967323.16	381.12	381.82	NA	NA	NA	2.50 - 3.50	1	1	377.62	Active
HA-PP-2*	May 2020	2769922.20	967290.63	380.87	381.51	NA	NA	NA	2.50 - 3.50	1	1	377.37	Active
French Drain Piezometers													
FD-PZ-1	May 2020	2771101.58	968746.38	418.94	418.93	0.0 - 9.5	9.5 - 11.5	11.5 - 13.5	13.50 - 18.50	5	1	400.44	Active
FD-PZ-2	May 2020	2771272.40	969128.98	423.34	423.37	0.0 - 20.0	20.0 - 22.0	22.0 - 34.0	24.00 - 34.00	10	1	389.34	Active
FD-PZ-3S	March 2021	2771178.58	968663.70	420.45	420.09	1.0 - 6.0	6.0 - 8.0	8.0 - 19.6	9.60 - 19.60	10	2	400.85	Active
FD-PZ-3D	March 2021	2771181.92	968659.62	420.67	420.30	1.0 - 20.0	20.0 - 22.0	22.0 - 34.0	24.00 - 34.00	10	2	386.67	Active
FD-PZ-4	March 2021	2771055.46	968516.03	419.74	419.19	1.0 - 8.0	8.0 - 10.0	10.0 - 23.0	13.00 - 23.00	10	2	396.74	Active
FD-PZ-5	July 2025	2771384.74	969026.55	436.70	439.66	0.0 - 11.0	11.0 - 13.0	13.0 - 31.7	15.24 - 30.24	10	2	406.46	Active
FD-PZ-6	July 2025	2771676.17	968843.60	465.36	467.90	0.0 - 31.0	31.0 - 33.0	33.0 - 46.0	35.70 - 45.70	10	2	419.66	Active
Corrective Measures Assessment Wells													
CMA-01	Decmber 2022	2771009.92	967939.00	443.22	445.87	2.0 - 28.7	28.7 - 32.7	32.7 - 34.7	34.70 - 44.70	10	2	398.52	Active
CMA-01I	Decmber 2022	2771020.79	967939.76	443.31	446.25	2.0 - 53.7	53.7 - 57.7	57.5 - 59.7	59.70 - 69.70	10	2	373.61	Active
CMA-02	Decmber 2022	2771004.85	967737.70	433.93	436.63	2.0 - 33.7	33.7 - 37.7	37.7 - 39.7	39.70 - 49.70	10	2	384.23	Active
CMA-02I	Decmber 2022	2771015.91	967740.54	434.21	436.51	2.0 - 58.7	58.7 - 62.7	62.7 - 64.7	64.70 - 74.70	10	2	359.51	Active
CMA-03	January 2023	2771041.44	967512.14	433.42	436.29	2.0 - 33.7	33.7 - 37.7	37.7 - 39.7	39.70 - 49.70	10	2	383.72	Active
CMA-03I	January 2023	2771050.68	967514.24	433.65	436.16	2.0 - 58.7	58.7 - 62.7	62.7 - 64.7	64.70 - 74.70	10	2	358.95	Active
CMA-04	January 2023	2771134.33	967261.67	433.26	435.89	2.0 - 28.7	28.7 - 32.7	32.7 - 34.7	34.70 - 44.70	10	4	388.56	Active
CMA-04BR	January 2023	2771152.36	967265.33	433.92	436.54	2.0 - 88.7	88.7 - 92.7	92.7 - 94.7	94.70 - 104.70	10	2	329.22	Active
CMA-04I	January 2023	2771143.74	967263.70	433.68	436.21	2.0 - 58.7	58.7 - 62.7	62.7 - 64.7	64.70 - 74.70	10	2	358.98	Active
CMA-05	January 2023	2771204.87	967013.33	433.39	436.26	2.0 - 23.7	23.7 - 27.7	27.7 - 29.7	29.70 - 39.70	10	2	393.69	Active
CMA-05I	January 2023	2771212.82	967015.68	433.53	436.52	2.0 - 48.7	48.7 - 52.7	52.7 - 54.7	54.70 - 64.70	10	2	368.83	Active
CMA-06	January 2023	2770645.10	967341.25	392.44	392.08	2.0 - 18.7	18.7 - 22.7	22.7 - 24.7	24.70 - 34.70	10	2	357.74	Active
CMA-06BR	January 2023	2770627.68	967336.58	392.77	392.44	2.0 - 63.7	63.7 - 67.7	67.7 - 69.7	69.7 - 79.7	10	2	313.07	Active
CMA-06I	January 2023	2770636.07	967338.68	392.40	392.22	2.0 - 43.7	43.7 - 47.7	47.7 - 49.7	49.7 - 59.7	10	2	332.70	Active
CMA-07I	January 2023	2770926.86	967090.66	417.02	419.95	2.0 - 28.7	28.7 - 32.7	32.7 - 34.7	34.7 - 44.7	10	2	372.32	Active
CMA-08I	January 2023	2770962.81	966864.34	440.74	443.25	2.0 - 33.7	33.7 - 37.7	37.7 - 39.7	39.7 - 49.7	10	2	391.04	Active

Notes:
 bgs = below ground surface
 ft = feet
 in. = inches
 Vertical Datum: North American Vertical Datum of 1988 (NAVD88)

TABLE 2
SUMMARY OF GROUNDWATER QUALITY DATA - MAY AND NOVEMBER 2025
 ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

Location Group Location Name Sample Name Sample Date Lab Sample ID	Criteria GWPS	Background			
		CCR-BK-1R CCR-BK-1R-050725 05/07/2025 180-190174-15	CCR-BK-1R CCR-BK-1R-110725 11/07/2025 180-198316-18	CCR-BK-2 CCR-BK-2-050725 05/07/2025 180-190174-17	CCR-BK-2 CCR-BK-2-110625 11/06/2025 180-198316-10
Detection Monitoring - EPA Appendix III Constituents (mg/L)					
Boron, Total	NA	0.067 U	1.5	0.05 U	0.05 U
Calcium, Total	NA	54	48	45	39
Chloride	NA	7.4	10	14	18
Fluoride	4	0.17	0.21	0.11	0.15
pH (lab) (pH units)	NA	7 J	6.9 J	6.9 J	6.8 J
Sulfate	NA	65	58	22	23
Total Dissolved Solids (TDS)	NA	280	300	260	240
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)					
Antimony, Total	0.006	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.01	0.005 U	0.005 U	0.005 U	0.005 U
Barium, Total	2	0.12	0.1	0.035	0.032
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	0.001 U	0.001 U	0.001 U	0.001 U
Chromium, Total	0.1	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.006	0.00036 J	0.00013 J	0.001 U	0.001 U
Fluoride	4	0.17	0.21	0.11	0.15
Lead, Total	0.015	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	0.016	0.0093	0.008 U	0.008 U
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	0.0021 J	0.0015 J	0.005 U	0.0014 J
Selenium, Total	0.05	0.005 U	0.005 U	0.005 U	0.005 U
Thallium, Total	0.002	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)					
Radium-226	NA	0.118 U ± 0.279	0.308 ± 0.171	0.0418 U ± 0.181	0.259 ± 0.176
Radium-228	NA	0.252 U ± 0.378	0.126 U ± 0.38	0.0814 U ± 0.328	0.392 U ± 0.418
Radium-226 & 228	5	0.37 U ± 0.47	0.434 UJ ± 0.417	0.123 U ± 0.375	0.65 UJ ± 0.454
Field Parameters					
Temperature (Deg C)	NA	15.52	16.77	16.88	17.9
Dissolved Oxygen, Field (mg/L)	NA	2.55	4.7	0.93	0.61
Conductivity, Field (mS/cm)	NA	0.4	0.327	0.357	0.313
Oxidation Reduction Potential (ORP), Field (mv)	NA	271	242	312	140
Turbidity, Field (NTU)	NA	5.4	0	0	1.7
pH, Field (pH units)	NA	7.14	6.05	6.8	6.69

Notes and Abbreviations:

CCR: Coal Combustion Residuals.
 mg/L: milligram per liter.
 pCi/L: picoCurie per liter.
 Deg C: Degrees Celsius.
 mS/cm: milliSiemen per centimeter.
 mv: millivolts.
 NTU: Nephelometric Turbidity Units.
 U: not detected, value is the laboratory reporting limit.
 J: value is estimated.
 J+: value is estimated with a potential high bias.
 USEPA: United States Environmental Protection Agency.
 GWPS: Ground Water Protection Standard.
 French Drain nature and extent locations included in these results as relevant site features that may affect selection of remedy.
 Results in **bold** are detected.
 Shaded values indicate an exceedance of the GWPS.
 USEPA, 2020. Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities. December 14. 40 CFR Part 257. <https://www.epa.gov/coalash/coal-ash-rule>

TABLE 2
SUMMARY OF GROUNDWATER QUALITY DATA - MAY AND NOVEMBER 2025
 ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

Location Group	Criteria	Downgradient														
		CCR-AP-1R	CCR-AP-1R	CCR-AP-2IR	CCR-AP-2IR	CCR-AP-2R	CCR-AP-2R	CCR-AP-3I	CCR-AP-3I	CCR-AP-3R	CCR-AP-3R	CCR-AP-4R	CCR-AP-4R	CCR-AP-5R	CCR-AP-5R	
Location Name	GWPS	CCR-AP-1R-050625	CCR-AP-1R-110525	CCR-AP-2IR-050625	CCR-AP-2IR-110625	CCR-AP-2R-050625	CCR-AP-2R-110625	CCR-AP-3I-050625	CCR-AP-3I-110625	CCR-AP-3R-050625	CCR-AP-3R-110625	CCR-AP-4R-050625	CCR-AP-4R-110525	CCR-AP-5R-050625	CCR-AP-5R-110525	
Sample Date		05/06/2025	11/05/2025	05/06/2025	11/06/2025	05/06/2025	11/06/2025	05/06/2025	11/06/2025	05/06/2025	11/06/2025	05/06/2025	11/05/2025	05/06/2025	11/05/2025	
Lab Sample ID		180-190174-6	180-198316-1	180-190174-10	180-198316-14	180-190174-12	180-198316-13	180-190174-	180-198316-12	180-190174-5	180-198316-11	180-190174-11	180-198316-3	180-190174-7	180-198316-7	
Detection Monitoring - EPA Appendix III Constituents (mg/L)																
Boron, Total	NA	1.6	1.7	0.78	1.7	5.7	10	2.1	2.2	12	13	0.12 J+	0.046 J	14	13	
Calcium, Total	NA	35	47	230	70	310	340	15	14	350	290	100	120	460	450	
Chloride	NA	4.5	20	140	100	260	470	150	140	630	560	4.3	5.1	450	480	
Fluoride	4	0.35	0.37	0.52	0.66	0.52	0.36 J	1.4	1.6	0.89	1.2	0.35	0.33	0.7	0.35	
pH (lab) (pH units)	NA	7 J	6.9 J	7 J	7.3 J	7 J	6.9 J	8.1 J	8.1 J	7.2 J	7.1 J	7.2 J	7.1 J	7.2 J	7.1 J	
Sulfate	NA	75	180	640	190	1700	2900	9.5	14	3700	4200	43	55	3200	3800	
Total Dissolved Solids (TDS)	NA	780	880	1600	930	3200	4900	720	770	7700	7100	540	630	5800	6300	
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)																
Antimony, Total	0.006	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	
Arsenic, Total	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	
Barium, Total	2	0.06	0.074	0.034	0.054	0.044	0.046	0.16	0.16	0.014	0.019	0.043	0.056	0.017	0.018	
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Cadmium, Total	0.005	0.001 U	0.00023 J	0.001 U	0.001 U	0.00019 J	0.00035 J	0.001 U	0.001 U	0.00013 J	0.00008 J	0.001 U	0.00013 J	0.00016 J	0.0032	
Chromium, Total	0.1	0.005 U	0.005 U	0.002 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0017 J	0.0024 J	0.005 U	0.005 U	
Cobalt, Total	0.006	0.00013 J	0.00033 J	0.00014 J	0.00052 J	0.00062 J	0.0018	0.001 U	0.001 U	0.00056 J	0.0017	0.001 U	0.00033 J	0.00014 J	0.00023 J	
Fluoride	4	0.35	0.37	0.52	0.66	0.52	0.36 J	1.4	1.6	0.89	1.2	0.35	0.33	0.7	0.35	
Lead, Total	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Lithium, Total	0.04	0.008 U	0.008 U	0.016	0.017	0.029	0.026	0.022	0.021	0.053	0.045	0.008 U	0.008 U	0.014	0.013	
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	
Molybdenum, Total	0.1	0.003 J	0.0036 J	0.005 U	0.0017 J	0.6	1.3	0.005 U	0.005 U	0.005 U	0.005 U	0.0014 J	0.0012 J	0.2	0.22	
Selenium, Total	0.05	0.005 U	0.00093 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.016	0.005 U					
Thallium, Total	0.002	0.001 U	0.00064 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Radiological (pCi/L)																
Radium-226	NA	0.287 U ± 0.231	0.188 U ± 0.209	0.197 U ± 0.226	0.409 ± 0.174	0.0417 U ± 0.168	0.423 ± 0.189	0.387 ± 0.247	0.163 U ± 0.151	0.0579 U ± 0.108	0.217 U ± 0.162	0.0631 U ± 0.185	0.269 U ± 0.195	0.268 ± 0.193	0.821 ± 0.253	
Radium-228	NA	0.223 U ± 0.376	1.24 ± 0.473	0.0279 U ± 0.383	1.18 U ± 0.494	0.746 U ± 0.42	1.34 U ± 0.497	0.432 U ± 0.402	0.73 U ± 0.393	0.513 U ± 0.352	0.915 U ± 0.435	0.283 U ± 0.36	0.45 U ± 0.394	0.606 U ± 0.368	0.62 ± 0.388	
Radium-226 & 228	5	0.51 U ± 0.441	1.43 J ± 0.517	0.225 U ± 0.445	1.59 J+ ± 0.524	0.788 UJ ± 0.452	1.76 J+ ± 0.532	0.819 J ± 0.472	0.893 UJ ± 0.421	0.571 ± 0.368	1.13 UJ ± 0.464	0.346 U ± 0.405	0.718 ± 0.44	0.875 J+ ± 0.416	1.44 ± 0.463	
Field Parameters																
Temperature (Deg C)	NA	17.85	17.65	20.73	14.41	18.91	18.85	17.31	19.57	18.18	18.63	15.6	16.51	18.2	17.61	
Dissolved Oxygen, Field (mg/L)	NA	0.4	0.4	0.78	1.27	2.87	1.03	0.8	0.82	0.55	0.81	5.78	4.97	0.51	1.08	
Conductivity, Field (mS/cm)	NA	0.93	1.14	2.14	1.26	2.38	5.96	1.2	0.907	9.8	9.03	0.709	0.816	7.48	7.467	
Oxidation Reduction Potential (ORP), Field (mv)	NA	129	127	264	207	294	201	108	-24	235	-54	229	134	155	202	
Turbidity, Field (NTU)	NA	1.7	0.9	0	0	0.5	0	13.7	0	0	0	33.6	1.6	1	0	
pH, Field (pH units)	NA	6.87	6.95	7.09	6.54	7.17	6.42	8.54	7.5	7.44	6.73	7.14	7.28	7.4	6.55	

Notes and Abbreviations:
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 mv: millivolts.
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TABLE 2
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 ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

Location Group	Criteria	Downgradient													
		CCR-AP-6 CCR-AP-6-050625 05/06/2025 180-190174-2	CCR-AP-6 DUP-1-050625 05/06/2025 180-190174-1	CCR-AP-6 CCR-AP-6-110525 11/05/2025 180-198316-5	CCR-AP-7R CCR-AP-7R-050625 05/06/2025 180-190174-4	CCR-AP-7R CCR-AP-7R-110725 11/07/2025 180-198316-19	CCR-AP-8 CCR-AP-8-050625 05/06/2025 180-190174-13	CCR-AP-8 CCR-AP-8-110525 11/05/2025 180-198316-6	CCR-AP-9 CCR-AP-9-050725 05/07/2025 180-190174-20	CCR-AP-9 CCR-AP-9-110525 11/05/2025 180-198316-4	CCR-AP-10 CCR-AP-10-050625 05/06/2025 180-190174-9	CCR-AP-10 CCR-AP-10-110725 11/07/2025 180-198316-17	CCR-AP-11 CCR-AP-11-050625 05/06/2025 180-190174-14	CCR-AP-11 CCR-AP-11-110525 11/05/2025 180-198316-2	CCR-AP-11 DUP-3-110525 11/05/2025 180-198316-20
Detection Monitoring - EPA Appendix III Constituents (mg/L)															
Boron, Total	NA	7	7.5	8.1	1.1	4.1	1.4	1.3	8.2	8.7	6.9	7.3	0.56	0.84	0.77
Calcium, Total	NA	170	170	170	200	290	330	260	440	410	320	330	140	150	150
Chloride	NA	230	220	250	170	350	93	85	120	1200	180	210	57	76	80
Fluoride	4	0.12 J	2.5 U	0.15 J	0.078 J	0.18 J	0.53	0.18	0.15	0.47 J	0.82	0.48	0.13 J	0.16	0.14
pH (lab) (pH units)	NA	6.7 J	6.7 J	6.7 J	6.6 J	6.5 J	6.9 J	6.8 J	6.9 J	6.8 J	7.2 J	7.1 J	6.9 J	6.9 J	6.9 J
Sulfate	NA	1500	1500	1700	860	2200	1200	1000	4900	5600	1900	2200	240	460	490
Total Dissolved Solids (TDS)	NA	2900	2900	3000	1800	3600	2500	2200	9300	10000	3100	3800	910	1200	1200
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)															
Antimony, Total	0.006	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0018 J	0.0089	0.01	0.005 U	0.0018 J	0.005 U	0.005 U	0.005 U
Barium, Total	2	0.012	0.012	0.011	0.02	0.024	0.025	0.039	0.052	0.052	0.015	0.024	0.051	0.067	0.065
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	0.001 U	0.0001 J	0.00015 J	0.001 U	0.001 U	0.001 U	0.00013 J	0.001 U	0.001 U	0.000079 J	0.001 U	0.001 U	0.00014 J	0.00014 J
Chromium, Total	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.003 J	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.006	0.00024 J	0.00023 J	0.00022 J	0.00014 J	0.00016 J	0.0061	0.0021	0.00025 J	0.00026 J	0.00063 J	0.0022	0.00014 J	0.00015 J	0.00016 J
Fluoride	4	0.12 J	2.5 U	0.15 J	0.078 J	0.18 J	0.53	0.18	0.15	0.47 J	0.82	0.48	0.13 J	0.16	0.14
Lead, Total	0.015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	0.0086	0.0088	0.0077 J	0.0099	0.014	0.015	0.013	0.034	0.036	0.008 U	0.008 U	0.0079 J	0.0084	0.008
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0012 J	0.005 U	0.013	0.014	0.0032 J	0.005 U	0.005 U	0.005 U
Selenium, Total	0.05	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0011 J	0.0072	0.0019 J	0.011	0.0043 J
Thallium, Total	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)															
Radium-226	NA	0.0239 U ± 0.187	-0.145 U ± 0.146	0.101 U ± 0.15	0.146 U ± 0.192	0.306 ± 0.159	1.12 ± 0.345	0.122 U ± 0.142	0.0288 U ± 0.209	0.222 U ± 0.223	0.224 U ± 0.203	0.219 U ± 0.18	0.257 U ± 0.272	0.287 U ± 0.237	0.104 U ± 0.12
Radium-228	NA	0.41 U ± 0.379	0.459 U ± 0.381	0.659 U ± 0.508	-0.229 U ± 0.347	0.757 U ± 0.414	0.118 U ± 0.306	0.908 ± 0.451	0.469 U ± 0.451	1.07 ± 0.566	0.965 U ± 0.447	1.48 U ± 0.627	0.126 U ± 0.324	0.597 U ± 0.447	0.353 U ± 0.435
Radium-226 & 228	5	0.433 U ± 0.423	0.459 U ± 0.408	0.761 U ± 0.53	0.146 U ± 0.397	1.06 J ± 0.443	1.23 J ± 0.461	1.03 J ± 0.473	0.498 U ± 0.497	1.29 J ± 0.608	1.19 U ± 0.491	1.7 U ± 0.652	0.383 U ± 0.423	0.884 ± 0.506	0.458 U ± 0.451
Field Parameters															
Temperature (Deg C)	NA	14.47	14.47	17.43	15.23	16.87	15.2	20.61	18.74	20.52	15.11	17.51	13.06	19.28	19.28
Dissolved Oxygen, Field (mg/L)	NA	0.41	0.41	1.18	5.75	5.44	0.4	0.81	0.46	0.75	0.81	1.85	1.01	0.42	0.42
Conductivity, Field (mS/cm)	NA	3.85	3.85	3.73	2.22	4.64	2.93	2.52	12.6	11.4	4.29	4.52	1.05	1.48	1.48
Oxidation Reduction Potential (ORP), Field (mv)	NA	90	90	76	231	226	-54	-20	-127	-113	183	186	210	149	149
Turbidity, Field (NTU)	NA	5.2	5.2	9.6	13.5	7.9	0	0	8.5	11.6	39.3	68.8	48.9	3.4	3.4
pH, Field (pH units)	NA	6.6	6.6	6.12	6.56	6.45	7.11	6.31	7.2	6.69	7.08	6.42	6.76	6.93	6.93

Notes and Abbreviations:
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 Deg C: Degrees Celsius.
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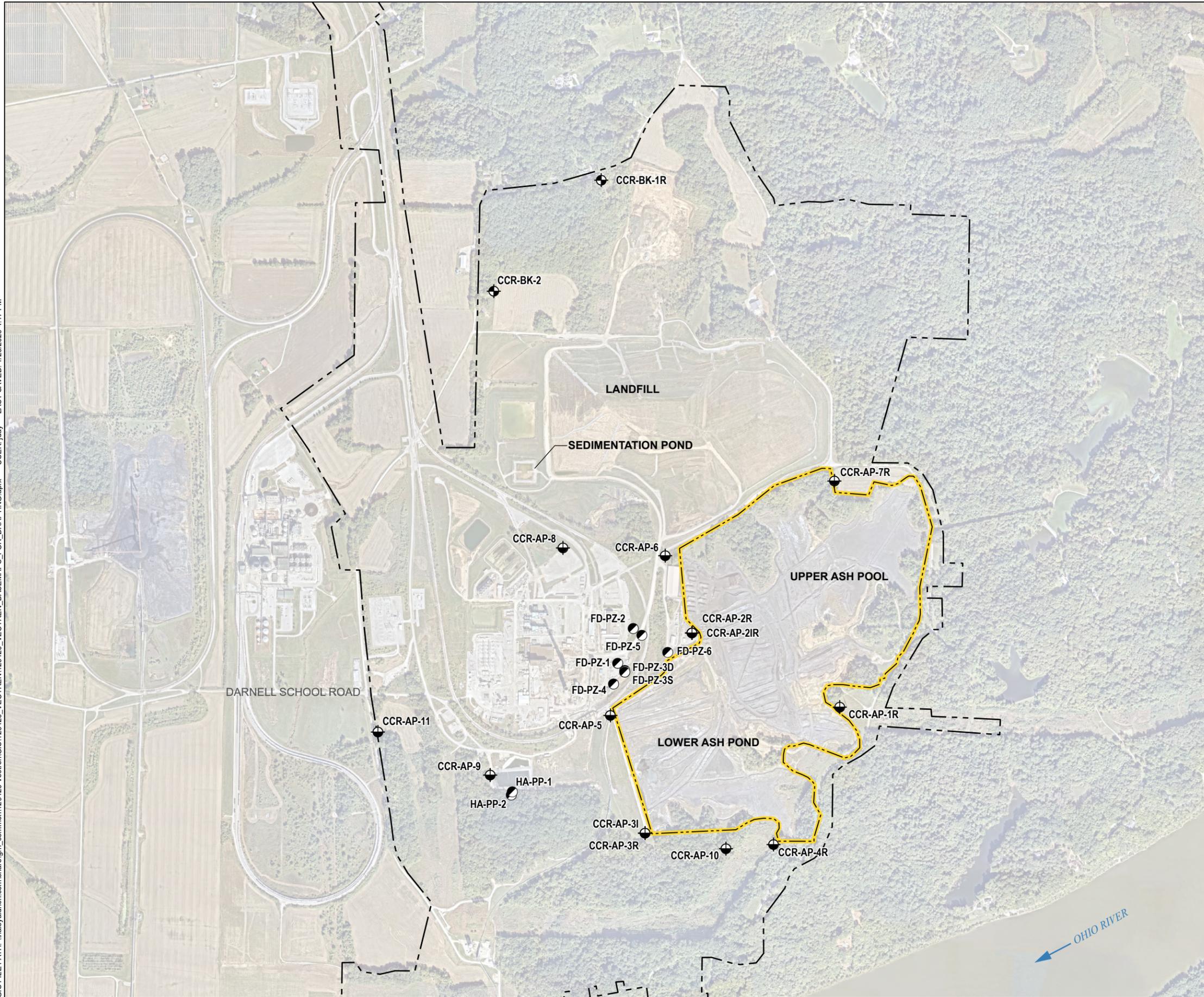
TABLE 2
SUMMARY OF GROUNDWATER QUALITY DATA - MAY AND NOVEMBER 2025
 ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

Location Group Location Name Sample Name Sample Date Lab Sample ID	Criteria GWPS	Nature & Extent - French Drain							
		FD-PZ-1 FD-PZ-1-050725 05/07/2025 180-190174-16	FD-PZ-1 FD-PZ-1-110625 11/06/2025 180-198316-15	FD-PZ-2 FD-PZ-2-050725 05/07/2025 180-190174-21	FD-PZ-2 FD-PZ-2-110625 11/06/2025 180-198316-8	MH-1 MH-1-050725 05/07/2025 180-190174-18	MH-1 MH-1-110625 11/06/2025 180-198316-9	MH-2 MH-2-050725 05/07/2025 180-190174-19	MH-2 MH-2-110625 11/06/2025 180-198316-16
Detection Monitoring - EPA Appendix III Constituents (mg/L)									
Boron, Total	NA	12	13	0.074 J+	0.052	13	12	12	12
Calcium, Total	NA	420	370	110	100	370	330	390	340
Chloride	NA	500	530	1.6	4.6	430	450	440	470
Fluoride	4	0.4 J	0.5	0.056 J	0.16	0.44 J	0.45 J	0.4 J	0.56
pH (lab) (pH units)	NA	7.4 J	7.3 J	7.1 J	7.1 J	7.2 J	7.2 J	7.3 J	7.2 J
Sulfate	NA	3200	3400	3.5	13	3000	3100	3000	3300
Total Dissolved Solids (TDS)	NA	5400	5700	470	480	5100	5200	5500	5700
Assessment Monitoring - EPA Appendix IV Constituents (mg/L)									
Antimony, Total	0.006	0.002 U	0.002 U	0.00059 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Arsenic, Total	0.01	0.005 U	0.005 U	0.0017 J	0.005 U	0.005 U	0.005 U	0.005 U	0.00093 J
Barium, Total	2	0.021	0.019	0.12	0.11	0.02	0.019	0.015	0.013
Beryllium, Total	0.004	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cadmium, Total	0.005	0.0001 J	0.00014 J	0.00028 J	0.00026 J	0.00021 J	0.00019 J	0.00027 J	0.00051 J
Chromium, Total	0.1	0.005 U	0.005 U	0.0056	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Cobalt, Total	0.006	0.001	0.00097 J	0.0024	0.00051 J	0.0019	0.0019	0.00045 J	0.00072 J
Fluoride	4	0.4 J	0.5	0.056 J	0.16	0.44 J	0.45 J	0.4 J	0.56
Lead, Total	0.015	0.001 U	0.001 U	0.0043	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Lithium, Total	0.04	0.032	0.03	0.014	0.0053 J	0.032	0.031	0.026	0.025
Mercury, Total	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum, Total	0.1	0.52	0.44	0.0018 J	0.005 U	1.2	1.3	0.98	1
Selenium, Total	0.05	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0011 J	0.005 U
Thallium, Total	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Radiological (pCi/L)									
Radium-226	NA	0.121 U ± 0.13	0.231 ± 0.163	-0.0769 U ± 0.305	0.47 ± 0.195	0.12 U ± 0.171	-0.00445 U ± 0.0825	0.131 U ± 0.231	0.0527 U ± 0.105
Radium-228	NA	0.0137 U ± 0.283	0.176 U ± 0.343	0.258 U ± 0.755	0.652 U ± 0.438	0.208 U ± 0.347	1.14 U ± 0.485	0.165 U ± 0.302	-0.00469 U ± 0.283
Radium-226 & 228	5	0.134 U ± 0.311	0.407 U ± 0.38	0.258 U ± 0.814	1.12 J ± 0.479	0.328 U ± 0.387	1.14 U ± 0.492	0.296 U ± 0.38	0.0527 U ± 0.302
Field Parameters									
Temperature (Deg C)	NA	16.9	19.86	17.13	20.65	17.45	20.4	17.13	20.94
Dissolved Oxygen, Field (mg/L)	NA	0.23	0.27	0.5	2.09	0.7	0.72	5.41	3.69
Conductivity, Field (mS/cm)	NA	7.11	7.42	0.645	0.636	6.92	6.82	7.27	7.19
Oxidation Reduction Potential (ORP), Field (mv)	NA	-40	-26	75	89	108	90	137	90
Turbidity, Field (NTU)	NA	3.1	1.1	46.1	24	3.4	0.1	2.1	0.4
pH, Field (pH units)	NA	7.11	7.13	6.93	7.11	7.02	7.17	7.08	7.1

Notes and Abbreviations:
 CCR: Coal Combustion Residuals.
 mg/L: milligram per liter.
 pCi/L: picoCurie per liter.
 Deg C: Degrees Celsius.
 mS/cm: milliSiemen per centimeter.
 mv: millivolts.
 NTU: Nephelometric Turbidity Units.
 U: not detected, value is the laboratory reporting limit.
 J: value is estimated.
 J+: value is estimated with a potential high bias.
 USEPA: United States Environmental Protection Agency.
 GWPS: Ground Water Protection Standard.
 French Drain nature and extent locations included in these results as relevant site features that may affect selection of remedy.
 Results in **bold** are detected.
 Shaded values indicate an exceedance of the GWPS.
 USEPA, 2020. Final Rule: Disposal of Coal Combustion Residuals from Electric Utilities. December 14. 40 CFR Part 257. <https://www.epa.gov/coalash/coal-ash-rule>

FIGURES

GIS FILE PATH: \\haleyaldrich.com\share\gim\common\129420\Vectren\GIS\129420_VECTREN_BASEMAPS_FOR_DRAFTING.aprx — USER: jday — LAST SAVED: 1/20/2026 4:17 PM



LEGEND

-  UPGRADIENT MONITORING WELL
-  DOWNGRADIENT MONITORING WELL
-  PIEZOMETER
-  UNIT BOUNDARY
-  PROPERTY BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. AERIAL IMAGERY SOURCE: NEARMAP, OCTOBER 11, 2025



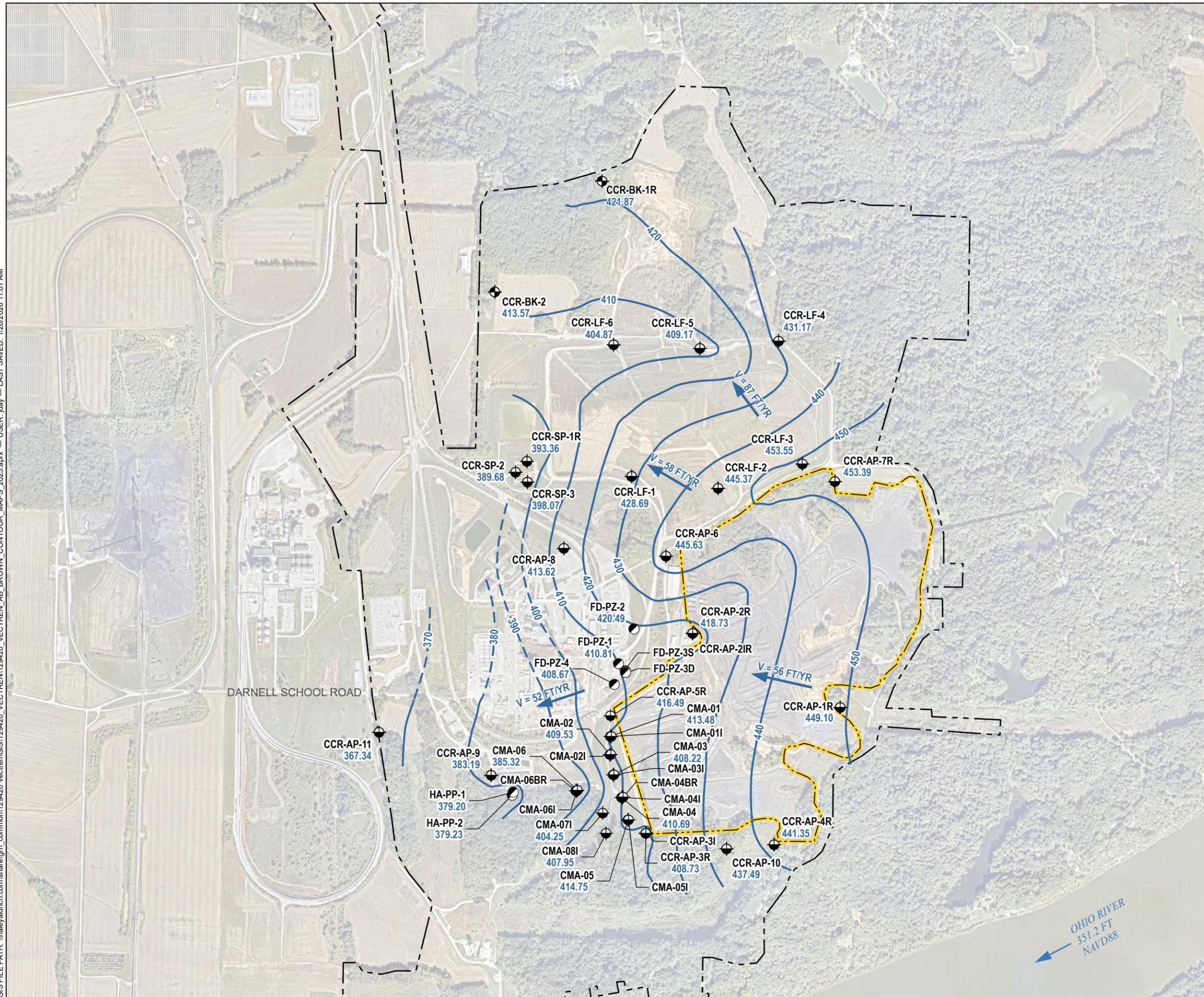
ASH POND
A.B.BROWN GENERATING STATION
POSEY COUNTY, INDIANA

**GROUNDWATER MONITORING
WELL LOCATIONS - ASH POND**

JANUARY 2026

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\gim\common\129420\Vectren\GIS\129420_VECTREN\AB_BROWN_CONTOUR_MAPS_2025.aprx — USER: jday — LAST SAVED: 1/26/2026 11:07 AM



LEGEND

- UPGRADIENT MONITORING WELL
- DOWNGRADIENT MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR, 10-FT INTERVAL, DASHED WHERE INFERRED
- PROPERTY BOUNDARY
- UNIT BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. VERTICAL DATUM: NAVD88 = NORTH AMERICAN VERTICAL DATUM 1988
3. WATER LEVELS GAGED MAY 5, 2025
4. OHIO RIVER STAGE MEASURED ON MAY 5, 2025 BY USGS GAGE 03322190 AT HENDERSON, KY, APPROXIMATELY 13.5 MILES UPSTREAM FROM A.B. BROWN GENERATING STATION.
5. GROUNDWATER VELOCITY SHOWN IN FEET PER YEAR
6. $V = \frac{k(i)}{n_e}$
 V = GROUNDWATER VELOCITY (FT/YR)
 K = HYDRAULIC CONDUCTIVITY (FT/YR)
 i = GROUNDWATER GRADIENT
 n_e = EFFECTIVE POROSITY
 ND = NO DATA
7. AERIAL IMAGERY SOURCE: NEARMAP, OCTOBER 11, 2025



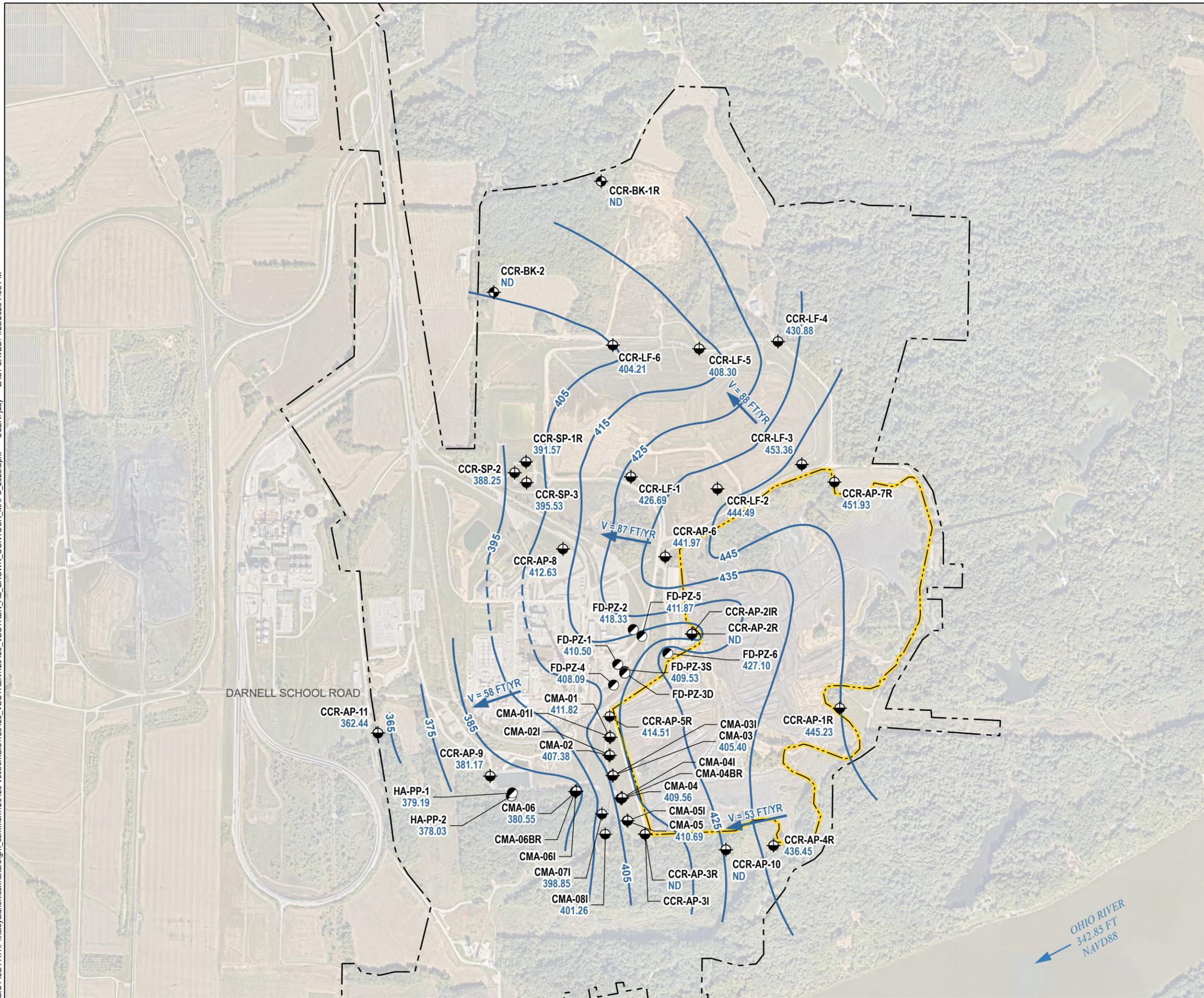
ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

**SHALLOW GROUNDWATER
 ELEVATION CONTOURS -
 ASH POND - MAY 5, 2025**

JANUARY 2026

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\gim\common\129420_Vectren\GIS\129420_Vectren_AB_BROWN_CONTOUR_MAPS_2025.aprx — USER: jday — LAST SAVED: 1/23/2026 7:38 PM



LEGEND

- UPGRADIENT MONITORING WELL
- DOWNGRADIENT MONITORING WELL
- PIEZOMETER
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR, 10-FT INTERVAL, DASHED WHERE INFERRED
- PROPERTY BOUNDARY
- UNIT BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. VERTICAL DATUM: NAVD88 = NORTH AMERICAN VERTICAL ATUM 1988
3. WATER LEVELS GAGED NOVEMBER 3, 2025
4. OHIO RIVER STAGE MEASURED ON NOVEMBER 3, 2025 AT 12:00 PM BY USGS GAGE 03322190 AT HENDERSON, KY, APPROXIMATELY 13.5 MILES UPSTREAM FROM A.B. BROWN GENERATING STATION.
5. GROUNDWATER VELOCITY SHOWN IN FEET PER YEAR
6. $V = \frac{k(i)}{n_e}$
 V = GROUNDWATER VELOCITY (FT/YR)
 K = HYDRAULIC CONDUCTIVITY (FT/YR)
 i = GROUNDWATER GRADIENT
 n_e = EFFECTIVE POROSITY
 ND = NO DATA
7. AERIAL IMAGERY SOURCE: NEARMAP, OCTOBER 11, 2025



HALEY ALDRICH ASH POND
 A.B. BROWN GENERATING STATION
 POSEY COUNTY, INDIANA

SHALLOW GROUNDWATER ELEVATION CONTOURS - ASH POND - NOVEMBER 3, 2025

JANUARY 2026

FIGURE 3

APPENDIX A
Summary of Statistical Analysis



HALEY & ALDRICH, INC.
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Suite 100
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TECHNICAL MEMORANDUM

12 March 2025
File No. 0129420-027

TO: Southern Indiana Gas and Electric Company

FROM: Haley & Aldrich, Inc.
Todd Plating, Program Manager, Geologist
Steven F. Putrich, P.E., Project Principal

SUBJECT: Statistical Evaluation of the November 2024 Semi-Annual Groundwater
Assessment Monitoring Data
Southern Indiana Gas and Electric Company
Ash Pond
A.B. Brown Generating Station; Posey County, Indiana

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93 and § 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the November 2024 semi-annual assessment monitoring event for the A.B. Brown Generating Station Ash Pond. Haley & Aldrich, Inc. (Haley & Aldrich) completed this statistical evaluation to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at statistically significant levels (SSL) greater than the Groundwater Protection Standards (GWPS), consistent with the requirements in 40 CFR § 257.95.

Methods used during this statistical analysis are described in Haley & Aldrich's 2017 *Statistical Data Analysis Plan for the A.B Brown Generating Station Ash Pond*. A summary of how applicable performance standards described in 40 CFR § 257.93 (g) were achieved include:

- 40 CFR § 257.93 (g) (1) – Data set distribution was evaluated using basic summary statistics, graphical methods including probability plots, and the Shapiro-Wilk Test for Normality. Data sets were also evaluated for outliers using box plots and either Dixon's Q Test for Outliers or Rosner's Outlier Test depending on sample size. Outlier identification and data set distribution groups are summarized in Attachment A. For background limit calculations, parametric methods were used for normally distributed data sets and non-parametric methods were used for non-normally distributed data sets.
- 40 CFR § 257.93 (g) (2) – Not applicable
- 40 CFR § 257.93 (g) (3) – Not applicable

- 40 CFR § 257.93 (g) (4) – Levels of confidence and additional supporting information for the use of tolerance intervals and prediction limits are included in Attachment A.
- 40 CFR § 257.93 (g) (5) – Non-detect values were accounted for by simple substitution, where the detection limit replaced the non-detect result. Non-detect values are identified and summarized in Attachment A.
- 40 CFR § 257.93 (g) (6) – Time series plots for groundwater monitoring wells included in this evaluation were reviewed to identify potential seasonal variability. No additional statistics to account for seasonality or spatial variability were necessary. Temporal trends were evaluated using the non-parametric Mann-Kendall Trend Test and Theil-Sen Estimator.

Data from the groundwater sampling event for the downgradient monitoring wells (CCR-AP-1R through CCR-AP-5R, CCR-AP-6, and CCR-AP-7R) were compared to the GWPS established from the background dataset for the upgradient monitoring wells (CCR-BK-1 and CCR-BK-2) for detected Appendix IV constituents. The GWPS for each of the Appendix IV constituents has been set equal to the highest value among the maximum contaminant level (MCL), regional screening level (RSL), or background threshold value (BTV). The results of the assessment monitoring statistical evaluation are discussed below and provided in Attachment A.

Development of Groundwater Protection Standards

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR §257.93(f) (1-4)). Haley & Aldrich certified the tolerance limit (TL) as the statistical method used for developing BTV on 14 January 2019. As noted above, the GWPS for each of the Appendix IV constituents have been set equal to the highest value of the MCL, RSL, or BTV (TL). The most recent groundwater sampling result from each compliance well was compared to the GWPS to determine if additional statistical testing is warranted.

STATISTICAL EVALUATION

BTVs are periodically updated per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (Unified Guidance). Prior to calculating BTVs, data were evaluated for outlier results, data distribution, and spatial and temporal variability. Potential outlier sample results that would warrant removal from the data set based on likely error in sampling or measurement were identified through statistical outlier using the outliers (version 0.15) R programming package and either the Dixon's or Rosner's Test for Outliers. Potential outliers were further evaluated by visual inspection of box plots and probability plots, and field forms and analytical laboratory reports were reviewed as necessary. No sample data were identified as outliers that warranted removal from the dataset.

Background data distributions were assessed using the stats (version 4.3.3) R programming package and either the Shapiro-Wilk or Shapiro-Francia Test for Normality. Data distributions were further evaluated by visual inspection of probability and distribution plots. Data distributions inform appropriate BTV calculation methods.

Background and downgradient data sets were evaluated for spatial and temporal variability by visual inspection of box plots and time series plots and using the Mann-Kendall Trend Tests (Kendall R programming package, version 2.2.1) and Theil-Sen Estimator (trend R programming package, version 1.1.6). Spatial and temporal variability in background data sets inform appropriate BTV calculation methods.

Note that the CCR unit is in assessment monitoring, so Appendix III (detection monitoring) constituents were not evaluated.

Interwell Background Evaluation

An interwell statistical evaluation was used to determine the TL and identify potential SSLs for detected Appendix IV constituents (Table 1). The interwell evaluation compares the most recent value from downgradient compliance wells to a background dataset composed of pooled upgradient well data. TLs were calculated from the pooled background well dataset utilizing R programming language and the EnvStats (version 2.8.1) and tolerance (version 2.0.0) packages. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used. Parametric TLs utilize normally distributed data or data normalized via a transformation of the background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

GWPS Comparison and LCL Calculations

A lower confidence limit (LCL) was calculated for any Appendix IV constituent measured in a downgradient well during the November 2024 sampling event at a concentration greater than the GWPS. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error. An SSL is indicated when the downgradient well/constituent-specific LCL is greater than the GWPS.

TREND SUMMARY

Mann-Kendall trend analyses were performed on data sets from the downgradient wells of sufficient sample size as described above. Results of the trend analysis are summarized in Table 2. Trends indicated for constituents identified as SSLs are summarized below:

- Molybdenum was determined to be stable at monitoring well location CCR-AP-2R, however a decreasing trend was identified in recent data (samples collected between May 2021 and November 2024).

- Molybdenum was determined to be stable at monitoring well location CCR-AP-3R.
- Lithium was determined to be stable at monitoring well location CCR-AP-3R, however no trend was identified in recent data (samples collected between May 2021 and November 2024).

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the November 2024 assessment monitoring event were compared to their respective GWPS (Attachment A). LCLs were calculated where constituents were detected at concentrations greater than a GWPS. An SSL is indicated when the LCL is greater than the GWPS. SSLs are summarized in the table below. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were used for downgradient wells and constituents. Based on this statistical evaluation, lithium and molybdenum remain as the only Appendix IV constituent SSLs downgradient of the Ash Pond. This information is provided for Southern Indiana Gas and Electric Company’s records. Because no new constituents were identified as SSLs, additional notification pertaining to the statistical analysis of the November 2024 groundwater analytical results is not required at this time.

Location	Trend	Constituent	Newly Identified SSLs	Concentration (mg/L)
CCR-AP-3R	Stable	Lithium	No	0.066
CCR-AP-2R	Stable	Molybdenum	No	1.200
CCR-AP-3R	Stable	Molybdenum	No	0.600
Notes: <i>mg/L = milligrams per liter</i>				

Enclosure

Table 2 – Trend Summary

Attachment A – Assessment Monitoring Statistical Analysis Summary

https://haleyaldrich.sharepoint.com/sites/VectrenCorporation/Shared Documents/0129420.AB Brown/Deliverables/0_Statistical Evaluation/Ash Pond/2024 Nov/Deliverables/2025-0311_HAI_ABB_AP_Statistical Evaluation Summary_D.docx

TABLE 2
Trend Summary

Table 2. Trend Summary

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-1R	Barium, Total	mg/L	Increasing	Increasing	23	23	0.081	0.00488	8	8	0.081	0.0121
CCR-AP-5R	Barium, Total	mg/L	Increasing	Stable	20	20	0.021	0.000389	8	8	0.021	NA
CCR-AP-5R	Molybdenum, Total	mg/L	Increasing	Increasing	20	20	0.19	0.0159	8	8	0.19	0.0271
CCR-AP-5R	Radium-226 & 228	pCi/L	Increasing	No Trend	19	12	0.974	0.0482	8	6	0.974	NA
CCR-BK-1	Radium-226 & 228	pCi/L	Increasing	Stable	20	11	2.46	0.0416	8	5	2.46	NA
CCR-BK-1	Chromium, Total	mg/L	No Trend	Increasing	22	15	0.0076	NA	8	4	0.0029	0.000524
CCR-BK-1	Molybdenum, Total	mg/L	Stable	Increasing	22	20	0.0034	NA	8	8	0.0025	0.000588
CCR-AP-1R	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	22	1	0.001	NA	8	1	0.001	NA
CCR-AP-2R	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.01	NA	8	0	0.001	NA
CCR-AP-3R	Antimony, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	21	0	0.01	NA	8	0	0.001	NA
CCR-AP-4R	Antimony, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0.001	NA	8	0	0.001	NA
CCR-AP-5R	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	19	1	0.01	NA	8	1	0.01	NA
CCR-AP-6	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.01	NA	8	0	0.001	NA
CCR-AP-7R	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.01	NA	8	0	0.001	NA
CCR-BK-1	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.001	NA	8	0	0.001	NA
CCR-BK-2	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	2	0.001	NA	8	1	0.001	NA
CCR-AP-1R	Arsenic, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	13	0.0052	NA	8	2	0.0025	NA
CCR-AP-2R	Arsenic, Total	mg/L	No Trend	No Trend	22	15	0.005	NA	8	7	0.0025	NA
CCR-AP-3R	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	7	0.005	NA	8	3	0.0025	NA
CCR-AP-4R	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	9	0.0025	NA	8	2	0.0025	NA
CCR-AP-5R	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	5	0.005	NA	8	2	0.005	NA
CCR-AP-6	Arsenic, Total	mg/L	Decreasing	No Trend	22	21	0.0053	-0.000365	8	8	0.0024	NA
CCR-AP-7R	Arsenic, Total	mg/L	No Trend	Probably Increasing	21	15	0.005	NA	8	4	0.0025	NA
CCR-BK-1	Arsenic, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	13	0.0025	NA	8	2	0.0025	NA
CCR-BK-2	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	9	0.0035	NA	8	2	0.0027	NA
CCR-AP-2R	Barium, Total	mg/L	No Trend	No Trend	23	23	0.063	NA	8	8	0.063	NA
CCR-AP-3R	Barium, Total	mg/L	No Trend	No Trend	22	22	0.16	NA	8	8	0.032	NA
CCR-AP-4R	Barium, Total	mg/L	Stable	Probably Decreasing	23	23	0.12	NA	8	8	0.095	NA
CCR-AP-6	Barium, Total	mg/L	Decreasing	Stable	23	22	0.05	-0.00149	8	8	0.029	NA
CCR-AP-7R	Barium, Total	mg/L	Decreasing	Stable	23	23	0.063	-0.00202	8	8	0.037	NA
CCR-BK-1	Barium, Total	mg/L	Probably Increasing	No Trend	23	23	0.087	NA	8	8	0.087	NA
CCR-BK-2	Barium, Total	mg/L	Stable	Decreasing	23	23	0.15	NA	8	8	0.049	-0.00269
CCR-AP-1R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	3	0.0005	NA	8	0	0.0005	NA
CCR-AP-2R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	4	0.005	NA	8	0	0.0005	NA
CCR-AP-3R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	21	2	0.005	NA	8	0	0.0005	NA
CCR-AP-4R	Beryllium, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0.0005	NA	8	0	0.0005	NA
CCR-AP-5R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	19	2	0.005	NA	8	0	0.005	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-6	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	3	0.00051	NA	8	0	0.0005	NA
CCR-AP-7R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.0005	NA	8	0	0.0005	NA
CCR-BK-1	Beryllium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.0005	NA	8	0	0.0005	NA
CCR-BK-2	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	3	0.0005	NA	8	1	0.0005	NA
CCR-AP-1R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.0005	NA	8	1	0.0005	NA
CCR-AP-2R	Cadmium, Total	mg/L	No Trend	Stable	23	16	0.005	NA	8	4	0.0005	NA
CCR-AP-3R	Cadmium, Total	mg/L	Probably Increasing	Not Evaluated - Majority of data (>50%) non-detect	22	12	0.005	NA	8	2	0.0005	NA
CCR-AP-4R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.0005	NA	8	0	0.0005	NA
CCR-AP-5R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	5	0.005	NA	8	3	0.005	NA
CCR-AP-6	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.005	NA	8	1	0.0005	NA
CCR-AP-7R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	7	0.005	NA	8	0	0.0005	NA
CCR-BK-1	Cadmium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.0005	NA	8	1	0.0005	NA
CCR-BK-2	Cadmium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.0005	NA	8	1	0.0005	NA
CCR-AP-1R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.02	NA	8	0	0.0025	NA
CCR-AP-2R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	3	0.01	NA	8	0	0.0025	NA
CCR-AP-3R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.01	NA	8	0	0.0025	NA
CCR-AP-4R	Chromium, Total	mg/L	No Trend	No Trend	22	19	0.0038	NA	8	5	0.0028	NA
CCR-AP-5R	Chromium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	20	1	0.01	NA	8	0	0.01	NA
CCR-AP-6	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	0.01	NA	8	1	0.0049	NA
CCR-AP-7R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	10	0.01	NA	8	1	0.0025	NA
CCR-BK-2	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	6	0.0087	NA	8	2	0.0047	NA
CCR-AP-1R	Cobalt, Total	mg/L	Decreasing	No Trend	23	18	0.011	-0.000146	8	4	0.00074	NA
CCR-AP-2R	Cobalt, Total	mg/L	Stable	Probably Decreasing	23	23	0.0079	NA	8	8	0.0032	NA
CCR-AP-3R	Cobalt, Total	mg/L	No Trend	Stable	21	16	0.0025	NA	8	8	0.00083	NA
CCR-AP-4R	Cobalt, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	9	0.0033	NA	8	0	0.0005	NA
CCR-AP-5R	Cobalt, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	8	0.0025	NA	8	3	0.0025	NA
CCR-AP-6	Cobalt, Total	mg/L	Decreasing	No Trend	23	23	0.0068	-0.000192	8	8	0.0036	NA
CCR-AP-7R	Cobalt, Total	mg/L	Decreasing	Stable	23	20	0.004	-0.000149	8	6	0.00058	NA
CCR-BK-1	Cobalt, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	16	0.0028	NA	8	3	0.00072	NA
CCR-BK-2	Cobalt, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	10	0.0062	NA	8	2	0.0015	NA
CCR-AP-1R	Fluoride	mg/L	No Trend	Decreasing	23	20	2.5	NA	8	8	0.64	-0.0764
CCR-AP-2R	Fluoride	mg/L	Stable	Stable	23	20	1.1	NA	8	7	0.51	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-3R	Fluoride	mg/L	No Trend	Stable	22	22	1.7	NA	8	8	1.6	NA
CCR-AP-4R	Fluoride	mg/L	Stable	Stable	23	23	0.58	NA	8	8	0.58	NA
CCR-AP-5R	Fluoride	mg/L	No Trend	Stable	20	18	0.56	NA	8	8	0.56	NA
CCR-AP-6	Fluoride	mg/L	No Trend	Stable	23	20	0.44	NA	8	8	0.31	NA
CCR-AP-7R	Fluoride	mg/L	No Trend	Stable	21	17	0.55	NA	8	8	0.3	NA
CCR-BK-1	Fluoride	mg/L	Probably Decreasing	Stable	22	20	0.38	NA	8	7	0.36	NA
CCR-BK-2	Fluoride	mg/L	Stable	Stable	21	18	0.34	NA	8	6	0.34	NA
CCR-AP-1R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	5	0.0013	NA	8	0	0.0005	NA
CCR-AP-2R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	9	0.0052	NA	8	2	0.00061	NA
CCR-AP-3R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	0.005	NA	8	1	0.00072	NA
CCR-AP-4R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	7	0.00066	NA	8	2	0.00066	NA
CCR-AP-5R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	20	2	0.005	NA	8	0	0.005	NA
CCR-AP-6	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	10	0.005	NA	8	2	0.0018	NA
CCR-AP-7R	Lead, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	15	0.005	NA	8	2	0.0006	NA
CCR-BK-1	Lead, Total	mg/L	Stable	No Trend	23	18	0.0011	NA	8	4	0.00068	NA
CCR-BK-2	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	8	0.011	NA	8	2	0.0024	NA
CCR-AP-1R	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	No Trend	23	11	0.066	NA	8	4	0.004	NA
CCR-AP-2R	Lithium, Total	mg/L	Decreasing	Stable	23	23	0.067	-0.00432	8	8	0.032	NA
CCR-AP-3R	Lithium, Total	mg/L	Stable	No Trend	22	22	0.1	NA	8	8	0.09	NA
CCR-AP-4R	Lithium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.025	NA	8	1	0.004	NA
CCR-AP-5R	Lithium, Total	mg/L	Stable	Stable	20	17	0.025	NA	8	6	0.025	NA
CCR-AP-6	Lithium, Total	mg/L	Decreasing	Decreasing	23	22	0.043	-0.0033	8	8	0.025	-0.00205
CCR-AP-7R	Lithium, Total	mg/L	Stable	Decreasing	23	22	0.034	NA	8	8	0.024	-0.00354
CCR-BK-1	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	No Trend	23	9	0.025	NA	8	6	0.011	NA
CCR-BK-2	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Stable	23	7	0.025	NA	8	6	0.0043	NA
CCR-AP-1R	Mercury, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.0001	NA	8	0	0.0001	NA
CCR-AP-2R	Mercury, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.0001	NA	8	0	0.0001	NA
CCR-AP-3R	Mercury, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	21	9	0.00053	NA	8	1	0.00053	NA
CCR-AP-4R	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0.0001	NA	8	0	0.0001	NA
CCR-AP-5R	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	19	0	0.0001	NA	8	0	0.0001	NA
CCR-AP-6	Mercury, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.0001	NA	8	0	0.0001	NA
CCR-AP-7R	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0.0001	NA	8	0	0.0001	NA
CCR-BK-1	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0.0001	NA	8	0	0.0001	NA
CCR-BK-2	Mercury, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.0002	NA	8	0	0.0001	NA
CCR-AP-1R	Molybdenum, Total	mg/L	No Trend	Stable	23	21	0.0074	NA	8	7	0.005	NA
CCR-AP-2R	Molybdenum, Total	mg/L	Stable	Decreasing	23	23	2	NA	8	8	2	-0.233
CCR-AP-3R	Molybdenum, Total	mg/L	Stable	Probably Decreasing	22	22	1	NA	8	8	1	NA
CCR-AP-4R	Molybdenum, Total	mg/L	Decreasing	No Trend	23	21	0.0088	-0.000151	8	7	0.0025	NA
CCR-AP-6	Molybdenum, Total	mg/L	Decreasing	Probably Decreasing	23	22	0.021	-0.00117	8	7	0.0043	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-7R	Molybdenum, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	4	0.025	NA	8	0	0.0025	NA
CCR-BK-2	Molybdenum, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	No Trend	23	10	0.0025	NA	8	4	0.0025	NA
CCR-AP-1R	Radium-226 & 228	pCi/L	No Trend	No Trend	22	15	2.47	NA	8	6	2.47	NA
CCR-AP-2R	Radium-226 & 228	pCi/L	Stable	Stable	20	15	1.55	NA	8	4	1.55	NA
CCR-AP-3R	Radium-226 & 228	pCi/L	No Trend	No Trend	21	17	1.62	NA	8	6	1.62	NA
CCR-AP-4R	Radium-226 & 228	pCi/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	7.93	NA	8	1	0.754	NA
CCR-AP-6	Radium-226 & 228	pCi/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	5	4.77	NA	8	2	0.72	NA
CCR-AP-7R	Radium-226 & 228	pCi/L	Probably Increasing	Stable	20	11	1.28	NA	8	6	1.28	NA
CCR-BK-2	Radium-226 & 228	pCi/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	5	3.13	NA	8	2	1.37	NA
CCR-AP-1R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	2	0.0025	NA	8	1	0.0025	NA
CCR-AP-2R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	4	0.025	NA	8	0	0.0025	NA
CCR-AP-3R	Selenium, Total	mg/L	Stable	Decreasing	22	20	0.04	NA	8	8	0.019	-0.0043
CCR-AP-4R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.0025	NA	8	1	0.0025	NA
CCR-AP-5R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	3	0.025	NA	8	2	0.025	NA
CCR-AP-6	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	2	0.025	NA	8	1	0.003	NA
CCR-AP-7R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.025	NA	8	1	0.0029	NA
CCR-BK-1	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	4	0.0027	NA	8	1	0.0027	NA
CCR-BK-2	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.0025	NA	8	1	0.0025	NA
CCR-AP-1R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	4	0.00054	NA	8	1	0.00054	NA
CCR-AP-2R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.005	NA	8	0	0.0005	NA
CCR-AP-3R	Thallium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	21	1	0.005	NA	8	1	0.0005	NA
CCR-AP-4R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	3	0.0005	NA	8	1	0.0005	NA
CCR-AP-5R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	19	4	0.005	NA	8	3	0.005	NA
CCR-AP-6	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	0.005	NA	8	1	0.0005	NA
CCR-AP-7R	Thallium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.005	NA	8	0	0.0005	NA
CCR-BK-1	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.0005	NA	8	0	0.0005	NA
CCR-BK-2	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	4	0.00076	NA	8	2	0.00076	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

ATTACHMENT A
Assessment Monitoring Statistical Analysis Summary

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
CCR-AP-1R	Antimony, Total	mg/L	22	21	95	0.00200	0.0007	0.00194	0.002	0.00028	7.7e-08	0.002 - 0.002	2016-06-07 to 2024-11-06
CCR-AP-2R	Antimony, Total	mg/L	22	21	95	0.02000	0.00011	0.00355	0.002	0.0053	2.9e-05	0.002 - 0.02	2016-08-11 to 2024-11-05
CCR-AP-3R	Antimony, Total	mg/L	21	21	100	0.02000	0.00022	0.00449	0.002	0.0065	4.2e-05	0.00022 - 0.02	2016-08-15 to 2024-11-05
CCR-AP-4R	Antimony, Total	mg/L	22	22	100	0.00200	0.002	0.002	0.002	0	0	0.002 - 0.002	2016-06-07 to 2024-11-06
CCR-AP-5R	Antimony, Total	mg/L	19	18	95	0.02000	0.00094	0.00479	0.002	0.0068	4.6e-05	0.002 - 0.02	2016-06-06 to 2024-11-05
CCR-AP-6	Antimony, Total	mg/L	22	21	95	0.02000	0.00068	0.00276	0.002	0.0039	1.5e-05	0.002 - 0.02	2016-06-07 to 2024-11-07
CCR-AP-7R	Antimony, Total	mg/L	22	20	91	0.02000	0.0004	0.00268	0.002	0.0039	1.5e-05	0.002 - 0.02	2016-06-09 to 2024-11-07
CCR-BK-1	Antimony, Total	mg/L	22	20	91	0.00200	5.6e-05	0.00184	0.002	0.00052	2.7e-07	0.002 - 0.002	2016-08-11 to 2024-11-07
CCR-BK-2	Antimony, Total	mg/L	22	20	91	0.00200	0.00048	0.00187	0.002	0.00043	1.8e-07	0.002 - 0.002	2016-06-08 to 2024-11-06
Pooled Background	Antimony, Total	mg/L	44	40	91	0.00200	5.6e-05	0.00185	0.002	0.00047	2.2e-07	0.002 - 0.002	2016-06-08 to 2024-11-07
CCR-AP-1R	Arsenic, Total	mg/L	22	9	41	0.00520	0.00031	0.00166	0.000995	0.0019	3.6e-06	0.001 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-2R	Arsenic, Total	mg/L	22	7	32	0.01000	0.00034	0.00188	0.00098	0.0028	7.9e-06	0.001 - 0.01	2016-08-11 to 2024-11-05
CCR-AP-3R	Arsenic, Total	mg/L	21	14	67	0.01000	0.00029	0.00249	0.001	0.0034	1.2e-05	0.001 - 0.01	2016-08-15 to 2024-11-05
CCR-AP-4R	Arsenic, Total	mg/L	22	13	59	0.00500	0.00026	0.00146	0.001	0.0017	3e-06	0.001 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-5R	Arsenic, Total	mg/L	20	15	75	0.01000	0.00016	0.00282	0.001	0.0035	1.2e-05	0.001 - 0.01	2016-06-06 to 2024-11-05
CCR-AP-6	Arsenic, Total	mg/L	22	1	5	0.01000	0.00046	0.00254	0.002	0.0022	5e-06	0.01 - 0.01	2016-06-07 to 2024-11-07
CCR-AP-7R	Arsenic, Total	mg/L	21	6	29	0.01000	0.00046	0.00218	0.00087	0.0025	6.2e-06	0.001 - 0.01	2016-06-09 to 2024-11-07
CCR-BK-1	Arsenic, Total	mg/L	22	9	41	0.00500	0.00021	0.00129	0.001	0.0013	1.7e-06	0.001 - 0.005	2016-08-11 to 2024-11-07
CCR-BK-2	Arsenic, Total	mg/L	23	14	61	0.00500	0.00031	0.00151	0.001	0.0013	1.8e-06	0.001 - 0.005	2016-06-08 to 2024-11-06
Pooled Background	Arsenic, Total	mg/L	45	23	51	0.00500	0.00021	0.0014	0.001	0.0013	1.7e-06	0.001 - 0.005	2016-06-08 to 2024-11-07
CCR-AP-1R	Barium, Total	mg/L	23	0	0	0.08100	0.012	0.0324	0.026	0.019	0.00036	NA	2016-06-07 to 2024-11-06
CCR-AP-2R	Barium, Total	mg/L	23	0	0	0.06300	0.021	0.0405	0.043	0.01	0.00011	NA	2016-08-11 to 2024-11-05
CCR-AP-3R	Barium, Total	mg/L	22	0	0	0.16000	0.012	0.0241	0.017	0.031	0.00094	NA	2016-08-15 to 2024-11-05
CCR-AP-4R	Barium, Total	mg/L	23	0	0	0.12000	0.042	0.0731	0.077	0.025	0.00062	NA	2016-06-07 to 2024-11-06
CCR-AP-5R	Barium, Total	mg/L	20	0	0	0.02100	0.012	0.0172	0.0165	0.0024	5.7e-06	NA	2016-06-06 to 2024-11-05
CCR-AP-6	Barium, Total	mg/L	23	1	4	0.10000	0.011	0.0219	0.018	0.019	0.00034	0.1 - 0.1	2016-06-07 to 2024-11-07
CCR-AP-7R	Barium, Total	mg/L	23	0	0	0.06300	0.017	0.0323	0.031	0.011	0.00011	NA	2016-06-09 to 2024-11-07
CCR-BK-1	Barium, Total	mg/L	23	0	0	0.08700	0.027	0.0456	0.038	0.017	0.00028	NA	2016-08-11 to 2024-11-07
CCR-BK-2	Barium, Total	mg/L	23	0	0	0.15000	0.032	0.042	0.036	0.024	0.00058	NA	2016-06-08 to 2024-11-06
Pooled Background	Barium, Total	mg/L	46	0	0	0.15000	0.027	0.0438	0.037	0.021	0.00042	NA	2016-06-08 to 2024-11-07
CCR-AP-1R	Beryllium, Total	mg/L	22	19	86	0.00100	6.5e-05	0.000884	0.001	0.0003	9e-08	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-2R	Beryllium, Total	mg/L	22	18	82	0.01000	0.00013	0.00167	0.001	0.0027	7.4e-06	0.001 - 0.01	2016-08-11 to 2024-11-05
CCR-AP-3R	Beryllium, Total	mg/L	21	19	90	0.01000	0.00017	0.00178	0.001	0.0027	7.5e-06	0.001 - 0.01	2016-08-15 to 2024-11-05
CCR-AP-4R	Beryllium, Total	mg/L	22	22	100	0.00100	0.001	0.001	0.001	0	0	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-5R	Beryllium, Total	mg/L	19	17	89	0.01000	5.2e-05	0.00185	0.001	0.0029	8.3e-06	0.001 - 0.01	2016-06-06 to 2024-11-05
CCR-AP-6	Beryllium, Total	mg/L	22	19	86	0.00100	0.0001	0.00091	0.001	0.00024	5.8e-08	0.001 - 0.001	2016-06-07 to 2024-11-07
CCR-AP-7R	Beryllium, Total	mg/L	22	20	91	0.00100	0.00013	0.000926	0.001	0.00024	5.8e-08	0.001 - 0.001	2016-06-09 to 2024-11-07
CCR-BK-1	Beryllium, Total	mg/L	22	21	95	0.00100	0.00012	0.00096	0.001	0.00019	3.5e-08	0.001 - 0.001	2016-08-11 to 2024-11-07
CCR-BK-2	Beryllium, Total	mg/L	22	19	86	0.00100	0.00018	0.000905	0.001	0.00025	6.2e-08	0.001 - 0.001	2016-06-08 to 2024-11-06
Pooled Background	Beryllium, Total	mg/L	44	40	91	0.00100	0.00012	0.000932	0.001	0.00022	4.8e-08	0.001 - 0.001	2016-06-08 to 2024-11-07
CCR-AP-1R	Cadmium, Total	mg/L	23	18	78	0.00100	0.00011	0.000822	0.001	0.00035	1.2e-07	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-2R	Cadmium, Total	mg/L	23	7	30	0.01000	0.00026	0.00138	0.00045	0.0027	7.5e-06	0.001 - 0.01	2016-08-11 to 2024-11-05
CCR-AP-3R	Cadmium, Total	mg/L	22	10	45	0.01000	0.00013	0.00181	0.000305	0.0034	1.1e-05	0.001 - 0.01	2016-08-15 to 2024-11-05
CCR-AP-4R	Cadmium, Total	mg/L	23	21	91	0.00100	8.4e-05	0.000925	0.001	0.00025	6.3e-08	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-5R	Cadmium, Total	mg/L	20	15	75	0.01000	0.00012	0.00216	0.001	0.0034	1.2e-05	0.001 - 0.01	2016-06-06 to 2024-11-05
CCR-AP-6	Cadmium, Total	mg/L	23	20	87	0.01000	0.0001	0.00128	0.001	0.0019	3.7e-06	0.001 - 0.01	2016-06-07 to 2024-11-07
CCR-AP-7R	Cadmium, Total	mg/L	23	16	70	0.01000	0.00011	0.00114	0.001	0.002	3.9e-06	0.001 - 0.01	2016-06-09 to 2024-11-07
CCR-BK-1	Cadmium, Total	mg/L	23	22	96	0.00100	9e-05	0.00096	0.001	0.00019	3.6e-08	0.001 - 0.001	2016-08-11 to 2024-11-07
CCR-BK-2	Cadmium, Total	mg/L	23	22	96	0.00100	0.00024	0.000967	0.001	0.00016	2.5e-08	0.001 - 0.001	2016-06-08 to 2024-11-06
Pooled Background	Cadmium, Total	mg/L	46	44	96	0.00100	9e-05	0.000964	0.001	0.00017	3e-08	0.001 - 0.001	2016-06-08 to 2024-11-07
CCR-AP-1R	Chromium, Total	mg/L	23	21	91	0.02000	0.0011	0.00328	0.002	0.0038	1.5e-05	0.002 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-2R	Chromium, Total	mg/L	23	20	87	0.02000	0.00071	0.00392	0.002	0.0052	2.7e-05	0.002 - 0.02	2016-08-11 to 2024-11-05
CCR-AP-3R	Chromium, Total	mg/L	22	20	91	0.02000	0.00051	0.00475	0.002	0.0063	4e-05	0.002 - 0.02	2016-08-15 to 2024-11-05
CCR-AP-4R	Chromium, Total	mg/L	22	3	14	0.00500	0.0015	0.00253	0.0024	0.00085	7.3e-07	0.0025 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-5R	Chromium, Total	mg/L	20	19	95	0.02000	0.00062	0.00523	0.002	0.0065	4.2e-05	0.002 - 0.02	2016-06-06 to 2024-11-05
CCR-AP-6	Chromium, Total	mg/L	22	17	77	0.02000	0.00048	0.00344	0.002	0.0041	1.6e-05	0.002 - 0.02	2016-06-07 to 2024-11-07
CCR-AP-7R	Chromium, Total	mg/L	22	12	55	0.02000	0.00076	0.00338	0.002	0.004	1.6e-05	0.002 - 0.02	2016-06-09 to 2024-11-07
CCR-BK-1	Chromium, Total	mg/L	22	7	32	0.00760	0.00046	0.00236	0.002	0.0015	2.2e-06	0.002 - 0.005	2016-08-11 to 2024-11-07
CCR-BK-2	Chromium, Total	mg/L	22	16	73	0.00870	0.00076	0.00284	0.002	0.0018	3.3e-06	0.002 - 0.005	2016-06-08 to 2024-11-06
Pooled Background	Chromium, Total	mg/L	44	23	52	0.00870	0.00046	0.0026	0.002	0.0017	2.8e-06	0.002 - 0.005	2016-06-08 to 2024-11-07
CCR-AP-1R	Cobalt, Total	mg/L	23	5	22	0.01100	0.0002	0.00147	0.0005	0.0026	6.8e-06	0.0005 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-2R	Cobalt, Total	mg/L	23	0	0	0.00790	0.0016	0.00274	0.0026	0.0012	1.4e-06	NA	2016-08-11 to 2024-11-05
CCR-AP-3R	Cobalt, Total	mg/L	21	5	24	0.00500	0.00015	0.00103	0.0005	0.0014	1.9e-06	0.0005 - 0.005	2016-08-15 to 2024-11-05
CCR-AP-4R	Cobalt, Total	mg/L	23	14	61	0.00330	0.00011	0.000631	0.0005	0.00065	4.2e-07	0.0005 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-5R	Cobalt, Total	mg/L	20	12	60	0.00500	9.8e-05	0.00114	0.0005	0.0017	2.8e-06	0.0005 - 0.005	2016-06-06 to 2024-11-05
CCR-AP-6	Cobalt, Total	mg/L	23	0	0	0.00680	0.00017	0.00191	0.0012	0.0017	2.9e-06	NA	2016-06-07 to 2024-11-07
CCR-AP-7R	Cobalt, Total	mg/L	23	3	13	0.00500	0.00014	0.00122	0.00053	0.0014	1.8e-06	0.0005 - 0.005	2016-06-09 to 2024-11-07
CCR-BK-1	Cobalt, Total	mg/L	22	6	27	0.00280	0.00012	0.00073	0.000505	0.00065	4.3e-07	0.0005 - 0.001	2016-08-11 to 2024-11-07
CCR-BK-2	Cobalt, Total	mg/L	23	13	57	0.00620	9.6e-05	0.000835	0.0005	0.0012	1.5e-06	0.0005 - 0.001	2016-06-08 to 2024-11-06
Pooled Background	Cobalt, Total	mg/L	45	19	42	0.00620	9.6e-05	0.000783	0.0005	0.00098	9.7e-07	0.0005 - 0.001	2016-06-08 to 2024-11-07
CCR-AP-1R	Fluoride	mg/L	23	3	13	5.00000	0.2	0.659	0.49	0.96	0.92	0.5 - 5	2016-06-07 to 2024-11-06
CCR-AP-2R	Fluoride	mg/L	23	3	13	1.10000	0.23	0.497	0.5	0.21	0.043	0.5 - 0.5	2016-08-11 to 2024-11-05
CCR-AP-3R	Fluoride	mg/L	22	0	0	1.70000	0.6	1.11	1.05	0.31	0.097	NA	2016-08-15 to 2024-11-05
CCR-AP-4R	Fluoride	mg/L	23	0	0	0.58000	0.1	0.381	0.39	0.09	0.008	NA	2016-06-07 to 2024-11-06
CCR-AP-5R	Fluoride	mg/L	20	2	10	0.56000	0.2	0.345	0.315	0.12	0.013	0.5 - 0.5	2016-06-06 to 2024-11-05
CCR-AP-6	Fluoride	mg/L	23	3	13	0.44000	0.1	0.195					

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
CCR-BK-2	Fluoride	mg/L	21	3	14	0.34000	0.07	0.156	0.15	0.054	0.0029	0.1 - 0.12	2016-08-10 to 2024-11-06
Pooled Background	Fluoride	mg/L	43	5	12	0.38000	0.07	0.228	0.2	0.094	0.0089	0.1 - 0.23	2016-08-10 to 2024-11-07
CCR-AP-1R	Lead, Total	mg/L	23	18	78	0.00130	0.00015	0.000873	0.001	0.00033	1.1e-07	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-2R	Lead, Total	mg/L	23	14	61	0.01000	8.3e-05	0.00171	0.001	0.0028	7.9e-06	0.001 - 0.01	2016-08-11 to 2024-11-05
CCR-AP-3R	Lead, Total	mg/L	22	17	77	0.01000	0.00013	0.00206	0.001	0.0032	1.1e-05	0.001 - 0.01	2016-08-15 to 2024-11-05
CCR-AP-4R	Lead, Total	mg/L	23	16	70	0.00100	8.5e-05	0.000765	0.001	0.00038	1.4e-07	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-5R	Lead, Total	mg/L	20	18	90	0.01000	0.00024	0.00185	0.001	0.0028	7.8e-06	0.001 - 0.01	2016-06-06 to 2024-11-05
CCR-AP-6	Lead, Total	mg/L	23	13	57	0.01000	0.00013	0.00155	0.001	0.0021	4.6e-06	0.001 - 0.01	2016-06-07 to 2024-11-07
CCR-AP-7R	Lead, Total	mg/L	22	7	32	0.01000	0.00013	0.00124	0.00081	0.0021	4.4e-06	0.001 - 0.01	2016-08-10 to 2024-11-07
CCR-BK-1	Lead, Total	mg/L	23	5	22	0.00110	7.9e-05	0.000589	0.00063	0.00037	1.4e-07	0.001 - 0.001	2016-08-11 to 2024-11-07
CCR-BK-2	Lead, Total	mg/L	23	15	65	0.01100	2.8e-05	0.00152	0.001	0.0022	4.7e-06	0.001 - 0.001	2016-06-08 to 2024-11-06
Pooled Background	Lead, Total	mg/L	46	20	43	0.01100	2.8e-05	0.00105	0.001	0.0016	2.6e-06	0.001 - 0.001	2016-06-07 to 2024-11-07
CCR-AP-1R	Lithium, Total	mg/L	23	12	52	0.06600	0.00096	0.0186	0.008	0.02	0.00041	0.005 - 0.05	2016-06-07 to 2024-11-06
CCR-AP-2R	Lithium, Total	mg/L	23	0	0	0.06700	0.011	0.0423	0.035	0.016	0.00024	NA	2016-08-11 to 2024-11-05
CCR-AP-3R	Lithium, Total	mg/L	22	0	0	0.10000	0.059	0.075	0.0755	0.012	0.00013	NA	2016-08-15 to 2024-11-05
CCR-AP-4R	Lithium, Total	mg/L	23	22	96	0.05000	0.0011	0.025	0.008	0.022	0.00051	0.005 - 0.05	2016-06-07 to 2024-11-06
CCR-AP-5R	Lithium, Total	mg/L	20	3	15	0.05000	0.013	0.0219	0.017	0.012	0.00016	0.05 - 0.05	2016-06-06 to 2024-11-05
CCR-AP-6	Lithium, Total	mg/L	23	1	4	0.04300	0.005	0.0301	0.029	0.011	0.00013	0.005 - 0.005	2016-06-07 to 2024-11-07
CCR-AP-7R	Lithium, Total	mg/L	23	1	4	0.05000	0.011	0.0223	0.021	0.0081	6.5e-05	0.05 - 0.05	2016-06-07 to 2024-11-07
CCR-BK-1	Lithium, Total	mg/L	23	14	61	0.05000	0.0025	0.0212	0.0065	0.022	0.00047	0.005 - 0.05	2016-08-11 to 2024-11-07
CCR-BK-2	Lithium, Total	mg/L	23	16	70	0.05000	0.0016	0.0242	0.008	0.023	0.00054	0.005 - 0.05	2016-06-08 to 2024-11-06
Pooled Background	Lithium, Total	mg/L	46	30	65	0.05000	0.0016	0.0227	0.00725	0.022	0.00049	0.005 - 0.05	2016-06-07 to 2024-11-07
CCR-AP-1R	Mercury, Total	mg/L	22	21	95	0.00020	8.5e-05	0.000195	0.0002	2.5e-05	6e-10	0.0002 - 0.0002	2016-06-07 to 2024-11-06
CCR-AP-2R	Mercury, Total	mg/L	22	21	95	0.00020	8e-05	0.000195	0.0002	2.6e-05	6.5e-10	0.0002 - 0.0002	2016-08-11 to 2024-11-05
CCR-AP-3R	Mercury, Total	mg/L	21	12	57	0.00053	7.1e-05	0.000202	0.0002	0.00012	1.4e-08	0.0002 - 0.0002	2016-08-15 to 2024-11-05
CCR-AP-4R	Mercury, Total	mg/L	22	22	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-06-07 to 2024-11-06
CCR-AP-5R	Mercury, Total	mg/L	19	19	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-06-06 to 2024-11-05
CCR-AP-6	Mercury, Total	mg/L	22	21	95	0.00020	5.5e-05	0.000193	0.0002	3.1e-05	9.6e-10	0.0002 - 0.0002	2016-06-07 to 2024-11-07
CCR-AP-7R	Mercury, Total	mg/L	22	22	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-06-07 to 2024-11-07
CCR-BK-1	Mercury, Total	mg/L	22	22	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-08-11 to 2024-11-07
CCR-BK-2	Mercury, Total	mg/L	22	20	91	0.00020	0.0001	0.000195	0.0002	2.1e-05	4.5e-10	0.0002 - 0.0002	2016-06-08 to 2024-11-06
Pooled Background	Mercury, Total	mg/L	44	42	95	0.00020	0.0001	0.000198	0.0002	1.5e-05	2.3e-10	0.0002 - 0.0002	2016-06-08 to 2024-11-07
CCR-AP-1R	Molybdenum, Total	mg/L	23	2	9	0.00740	0.0024	0.00423	0.0043	0.0011	1.2e-06	0.005 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-2R	Molybdenum, Total	mg/L	23	0	0	2.00000	0.96	1.58	1.6	0.28	0.077	NA	2016-08-11 to 2024-11-05
CCR-AP-3R	Molybdenum, Total	mg/L	22	0	0	1.00000	0.6	0.842	0.86	0.11	0.013	NA	2016-08-15 to 2024-11-05
CCR-AP-4R	Molybdenum, Total	mg/L	23	2	9	0.00880	0.0012	0.00236	0.0015	0.0019	3.5e-06	0.005 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-5R	Molybdenum, Total	mg/L	20	0	0	0.19000	0.016	0.0759	0.0585	0.051	0.0026	NA	2016-06-06 to 2024-11-05
CCR-AP-6	Molybdenum, Total	mg/L	23	1	4	0.02100	0.0012	0.00712	0.0064	0.0045	2e-05	0.005 - 0.005	2016-06-07 to 2024-11-07
CCR-AP-7R	Molybdenum, Total	mg/L	23	19	83	0.05000	0.0062	0.00626	0.005	0.0097	9.3e-05	0.005 - 0.05	2016-06-09 to 2024-11-07
CCR-BK-1	Molybdenum, Total	mg/L	22	2	9	0.00500	0.00063	0.00183	0.00145	0.0012	1.6e-06	0.005 - 0.005	2016-08-11 to 2024-11-07
CCR-BK-2	Molybdenum, Total	mg/L	23	13	57	0.00500	0.00051	0.00331	0.005	0.002	4.1e-06	0.005 - 0.005	2016-06-08 to 2024-11-06
Pooled Background	Molybdenum, Total	mg/L	45	15	33	0.00500	0.00051	0.00258	0.0017	0.0018	3.3e-06	0.005 - 0.005	2016-06-08 to 2024-11-07
CCR-AP-1R	Radium-226 & 228	pCi/L	22	7	32	2.47000	0.0879	0.757	0.681	0.53	0.28	0.0879 - 1.33	2016-06-07 to 2024-11-06
CCR-AP-2R	Radium-226 & 228	pCi/L	20	5	25	1.55000	0.339	0.772	0.643	0.34	0.12	0.339 - 0.816	2016-08-11 to 2024-11-05
CCR-AP-3R	Radium-226 & 228	pCi/L	21	4	19	1.62000	0.29	0.687	0.567	0.34	0.11	0.29 - 0.471	2016-08-15 to 2024-11-05
CCR-AP-4R	Radium-226 & 228	pCi/L	22	17	77	7.93000	0.0118	0.721	0.405	1.6	2.6	0.0118 - 0.712	2016-06-07 to 2024-11-06
CCR-AP-5R	Radium-226 & 228	pCi/L	19	7	37	0.97400	0.0606	0.461	0.431	0.18	0.033	0.0606 - 0.431	2016-06-06 to 2024-11-05
CCR-AP-6	Radium-226 & 228	pCi/L	20	15	75	4.77000	0.0546	0.508	0.279	1	1	0.0546 - 0.517	2016-06-07 to 2024-11-07
CCR-AP-7R	Radium-226 & 228	pCi/L	20	9	45	1.28000	0.0856	0.515	0.439	0.29	0.084	0.0856 - 0.451	2016-06-09 to 2024-11-07
CCR-BK-1	Radium-226 & 228	pCi/L	20	9	45	2.46000	0.121	0.601	0.495	0.53	0.28	0.121 - 0.959	2016-08-11 to 2024-11-07
CCR-BK-2	Radium-226 & 228	pCi/L	22	17	77	3.13000	-0.0961	0.638	0.264	0.87	0.76	-0.0961 - 2.74	2016-06-08 to 2024-11-06
Pooled Background	Radium-226 & 228	pCi/L	42	26	62	3.13000	-0.0961	0.62	0.39	0.72	0.52	-0.0961 - 2.74	2016-06-08 to 2024-11-07
CCR-AP-1R	Selenium, Total	mg/L	23	21	91	0.00500	0.00049	0.0047	0.005	0.0011	1.1e-06	0.005 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-2R	Selenium, Total	mg/L	23	19	83	0.05000	0.0004	0.00815	0.005	0.013	0.00018	0.005 - 0.05	2016-08-11 to 2024-11-05
CCR-AP-3R	Selenium, Total	mg/L	22	2	9	0.05000	0.0017	0.0137	0.0068	0.015	0.00023	0.05 - 0.05	2016-08-15 to 2024-11-05
CCR-AP-4R	Selenium, Total	mg/L	23	18	78	0.00500	0.00051	0.00415	0.005	0.0017	2.8e-06	0.005 - 0.005	2016-06-07 to 2024-11-06
CCR-AP-5R	Selenium, Total	mg/L	20	17	85	0.05000	0.00085	0.0112	0.005	0.017	0.00028	0.005 - 0.05	2016-06-06 to 2024-11-05
CCR-AP-6	Selenium, Total	mg/L	23	21	91	0.05000	0.00065	0.00668	0.005	0.0095	9e-05	0.005 - 0.05	2016-06-07 to 2024-11-07
CCR-AP-7R	Selenium, Total	mg/L	23	20	87	0.05000	0.0007	0.0065	0.005	0.0096	9.1e-05	0.005 - 0.05	2016-06-09 to 2024-11-07
CCR-BK-1	Selenium, Total	mg/L	23	19	83	0.00500	0.00037	0.00432	0.005	0.0016	2.5e-06	0.005 - 0.005	2016-08-11 to 2024-11-07
CCR-BK-2	Selenium, Total	mg/L	23	20	87	0.00500	0.00047	0.00452	0.005	0.0013	1.7e-06	0.005 - 0.005	2016-06-08 to 2024-11-06
Pooled Background	Selenium, Total	mg/L	46	39	85	0.00500	0.00037	0.00442	0.005	0.0014	2.1e-06	0.005 - 0.005	2016-06-08 to 2024-11-07
CCR-AP-1R	Thallium, Total	mg/L	22	18	82	0.00100	3.8e-05	0.000854	0.001	0.00033	1.1e-07	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-2R	Thallium, Total	mg/L	22	20	91	0.01000	4.1e-05	0.00174	0.001	0.0027	7.2e-06	0.001 - 0.01	2016-08-11 to 2024-11-05
CCR-AP-3R	Thallium, Total	mg/L	21	20	95	0.01000	0.00016	0.00225	0.001	0.0032	1.1e-05	0.001 - 0.01	2016-08-15 to 2024-11-05
CCR-AP-4R	Thallium, Total	mg/L	22	19	86	0.00100	2.1e-05	0.000884	0.001	0.0003	9.1e-08	0.001 - 0.001	2016-06-07 to 2024-11-06
CCR-AP-5R	Thallium, Total	mg/L	19	15	79	0.01000	7.6e-05	0.00231	0.001	0.0034	1.2e-05	0.001 - 0.01	2016-06-06 to 2024-11-05
CCR-AP-6	Thallium, Total	mg/L	22	17	77	0.01000	3.9e-05	0.00121	0.001	0.002	4e-06	0.001 - 0.01	2016-06-07 to 2024-11-07
CCR-AP-7R	Thallium, Total	mg/L	22	21	95	0.01000	5.4e-05	0.00137	0.001	0.0019	3.8e-06	0.001 - 0.01	2016-06-09 to 2024-11-07
CCR-BK-1	Thallium, Total	mg/L	22	20	91	0.00100	3.8e-05	0.000923	0.001	0.00025	6.3e-08	0.001 - 0.001	2016-08-11 to 2024-11-07
CCR-BK-2	Thallium, Total	mg/L	22	18	82	0.00100	5.9e-05	0.000872	0.001	0.0003	9.1e-08	0.001 - 0.001	2016-06-08 to 2024-11-06
Pooled Background	Thallium, Total	mg/L	44	38	86	0.00100	3.8e-05	0.000898	0.001	0.00028	7.6e-08	0.001 - 0.001	2016-06-08 to 2024-11-07

Note:
Units: mg/L = milligrams per liter, pCi/L = picocuries per liter

Table A-2. Results of Shapiro-Wilk Test for Normality

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)							
Location	Constituent	n	n, non-detects	W statistic	p-value	Data Normality (significance level = 0.05)	Data Normality (significance level = 0.01)
CCR-AP-1R	Antimony, Total	22	21	0.2215	7.417e-10	Not normal	Not normal
CCR-AP-2R	Antimony, Total	22	21	0.3667	9.144e-09	Not normal	Not normal
CCR-AP-3R	Antimony, Total	21	21	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-AP-4R	Antimony, Total	22	22	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-AP-5R	Antimony, Total	19	18	0.4469	1.757e-07	Not normal	Not normal
CCR-AP-6	Antimony, Total	22	21	0.2364	9.455e-10	Not normal	Not normal
CCR-AP-7R	Antimony, Total	22	20	0.2626	1.46e-09	Not normal	Not normal
CCR-BK-1	Antimony, Total	22	20	0.3392	5.522e-09	Not normal	Not normal
CCR-BK-2	Antimony, Total	22	20	0.3423	5.847e-09	Not normal	Not normal
Pooled Background	Antimony, Total	44	40	0.332	6.974e-13	Not normal	Not normal
CCR-AP-1R	Arsenic, Total	22	9	0.6608	6.463e-06	Not normal	Not normal
CCR-AP-2R	Arsenic, Total	22	7	0.6199	2.192e-06	Not normal	Not normal
CCR-AP-3R	Arsenic, Total	21	14	0.5978	1.868e-06	Not normal	Not normal
CCR-AP-4R	Arsenic, Total	22	13	0.572	6.717e-07	Not normal	Not normal
CCR-AP-5R	Arsenic, Total	20	15	0.6731	1.865e-05	Not normal	Not normal
CCR-AP-6	Arsenic, Total	22	1	0.8919	0.02056	Not normal	Normal
CCR-AP-7R	Arsenic, Total	21	6	0.7918	0.0004928	Not normal	Not normal
CCR-BK-1	Arsenic, Total	22	9	0.7493	8.885e-05	Not normal	Not normal
CCR-BK-2	Arsenic, Total	23	14	0.6618	4.648e-06	Not normal	Not normal
Pooled Background	Arsenic, Total	45	23	0.7054	3.406e-08	Not normal	Not normal
CCR-AP-1R	Barium, Total	23	0	0.8546	0.003302	Not normal	Not normal
CCR-AP-2R	Barium, Total	23	0	0.9234	0.07872	Normal	Normal
CCR-AP-3R	Barium, Total	22	0	0.3334	4.978e-09	Not normal	Not normal
CCR-AP-4R	Barium, Total	23	0	0.9037	0.03012	Not normal	Normal
CCR-AP-5R	Barium, Total	20	0	0.94	0.2399	Normal	Normal
CCR-AP-6	Barium, Total	23	1	0.8124	0.0006101	Not normal	Not normal
CCR-AP-7R	Barium, Total	23	0	0.9136	0.04873	Not normal	Normal
CCR-BK-1	Barium, Total	23	0	0.8213	0.0008568	Not normal	Not normal
CCR-BK-2	Barium, Total	23	0	0.3926	9.351e-09	Not normal	Not normal
Pooled Background	Barium, Total	46	0	0.5934	4.587e-10	Not normal	Not normal
CCR-AP-1R	Beryllium, Total	22	19	0.4312	3.154e-08	Not normal	Not normal
CCR-AP-2R	Beryllium, Total	22	18	0.3993	1.691e-08	Not normal	Not normal
CCR-AP-3R	Beryllium, Total	21	19	0.3833	2.011e-08	Not normal	Not normal
CCR-AP-4R	Beryllium, Total	22	22	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-AP-5R	Beryllium, Total	19	17	0.4178	1.015e-07	Not normal	Not normal
CCR-AP-6	Beryllium, Total	22	19	0.2924	2.424e-09	Not normal	Not normal
CCR-AP-7R	Beryllium, Total	22	20	0.3423	5.849e-09	Not normal	Not normal
CCR-BK-1	Beryllium, Total	22	21	0.2215	7.417e-10	Not normal	Not normal
CCR-BK-2	Beryllium, Total	22	19	0.4113	2.133e-08	Not normal	Not normal
Pooled Background	Beryllium, Total	44	40	0.3167	4.931e-13	Not normal	Not normal
CCR-AP-1R	Cadmium, Total	23	18	0.5457	2.414e-07	Not normal	Not normal
CCR-AP-2R	Cadmium, Total	23	7	0.4106	1.331e-08	Not normal	Not normal
CCR-AP-3R	Cadmium, Total	22	10	0.4818	8.898e-08	Not normal	Not normal
CCR-AP-4R	Cadmium, Total	23	21	0.3328	3.038e-09	Not normal	Not normal
CCR-AP-5R	Cadmium, Total	20	15	0.4961	2.93e-07	Not normal	Not normal
CCR-AP-6	Cadmium, Total	23	20	0.2894	1.402e-09	Not normal	Not normal
CCR-AP-7R	Cadmium, Total	23	16	0.3295	2.864e-09	Not normal	Not normal
CCR-BK-1	Cadmium, Total	23	22	0.215	3.995e-10	Not normal	Not normal
CCR-BK-2	Cadmium, Total	23	22	0.215	3.995e-10	Not normal	Not normal
Pooled Background	Cadmium, Total	46	44	0.2117	2.571e-14	Not normal	Not normal
CCR-AP-1R	Chromium, Total	23	21	0.2977	1.62e-09	Not normal	Not normal
CCR-AP-2R	Chromium, Total	23	20	0.4918	7.164e-08	Not normal	Not normal
CCR-AP-3R	Chromium, Total	22	20	0.5228	2.168e-07	Not normal	Not normal
CCR-AP-4R	Chromium, Total	22	3	0.9342	0.1498	Normal	Normal
CCR-AP-5R	Chromium, Total	20	19	0.56	1.165e-06	Not normal	Not normal
CCR-AP-6	Chromium, Total	22	17	0.569	6.268e-07	Not normal	Not normal
CCR-AP-7R	Chromium, Total	22	12	0.6408	3.775e-06	Not normal	Not normal
CCR-BK-1	Chromium, Total	22	7	0.7254	4.187e-05	Not normal	Not normal
CCR-BK-2	Chromium, Total	22	16	0.6002	1.333e-06	Not normal	Not normal
Pooled Background	Chromium, Total	44	23	0.6821	1.766e-08	Not normal	Not normal

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)

Location	Constituent	n	n, non-detects	W statistic	p-value	Data Normality (significance level =	Data Normality (significance level =
						0.05)	0.01)
CCR-AP-1R	Cobalt, Total	23	5	0.5027	9.088e-08	Not normal	Not normal
CCR-AP-2R	Cobalt, Total	23	0	0.5401	2.121e-07	Not normal	Not normal
CCR-AP-3R	Cobalt, Total	21	5	0.7455	0.0001076	Not normal	Not normal
CCR-AP-4R	Cobalt, Total	23	14	0.3957	9.926e-09	Not normal	Not normal
CCR-AP-5R	Cobalt, Total	20	12	0.5852	2.078e-06	Not normal	Not normal
CCR-AP-6	Cobalt, Total	23	0	0.8155	0.0006863	Not normal	Not normal
CCR-AP-7R	Cobalt, Total	23	3	0.7661	0.0001151	Not normal	Not normal
CCR-BK-1	Cobalt, Total	22	6	0.727	4.41e-05	Not normal	Not normal
CCR-BK-2	Cobalt, Total	23	13	0.4322	2.051e-08	Not normal	Not normal
Pooled Background	Cobalt, Total	45	19	0.5176	5.917e-11	Not normal	Not normal
CCR-AP-1R	Fluoride	23	3	0.5437	2.305e-07	Not normal	Not normal
CCR-AP-2R	Fluoride	23	3	0.8619	0.004514	Not normal	Not normal
CCR-AP-3R	Fluoride	22	0	0.9403	0.2006	Normal	Normal
CCR-AP-4R	Fluoride	23	0	0.8949	0.01983	Not normal	Normal
CCR-AP-5R	Fluoride	20	2	0.8234	0.00197	Not normal	Not normal
CCR-AP-6	Fluoride	23	3	0.8965	0.02147	Not normal	Normal
CCR-AP-7R	Fluoride	21	4	0.762	0.000182	Not normal	Not normal
CCR-BK-1	Fluoride	22	2	0.8486	0.00321	Not normal	Not normal
CCR-BK-2	Fluoride	21	3	0.8762	0.01243	Not normal	Normal
Pooled Background	Fluoride	43	5	0.9058	0.001888	Not normal	Not normal
CCR-AP-1R	Lead, Total	23	18	0.5604	3.413e-07	Not normal	Not normal
CCR-AP-2R	Lead, Total	23	14	0.4873	6.491e-08	Not normal	Not normal
CCR-AP-3R	Lead, Total	22	17	0.4826	9.051e-08	Not normal	Not normal
CCR-AP-4R	Lead, Total	23	16	0.6886	9.998e-06	Not normal	Not normal
CCR-AP-5R	Lead, Total	20	18	0.3846	3.356e-08	Not normal	Not normal
CCR-AP-6	Lead, Total	23	13	0.5651	3.819e-07	Not normal	Not normal
CCR-AP-7R	Lead, Total	22	7	0.617	2.036e-06	Not normal	Not normal
CCR-BK-1	Lead, Total	23	5	0.9324	0.1232	Normal	Normal
CCR-BK-2	Lead, Total	23	15	0.4026	1.136e-08	Not normal	Not normal
Pooled Background	Lead, Total	46	20	0.3438	4.696e-13	Not normal	Not normal
CCR-AP-1R	Lithium, Total	23	12	0.7351	4.141e-05	Not normal	Not normal
CCR-AP-2R	Lithium, Total	23	0	0.9018	0.02756	Not normal	Normal
CCR-AP-3R	Lithium, Total	22	0	0.9321	0.1356	Normal	Normal
CCR-AP-4R	Lithium, Total	23	22	0.6714	6.094e-06	Not normal	Not normal
CCR-AP-5R	Lithium, Total	20	3	0.8706	0.01206	Not normal	Normal
CCR-AP-6	Lithium, Total	23	1	0.8992	0.02436	Not normal	Normal
CCR-AP-7R	Lithium, Total	23	1	0.947	0.2535	Normal	Normal
CCR-BK-1	Lithium, Total	23	14	0.7321	3.764e-05	Not normal	Not normal
CCR-BK-2	Lithium, Total	23	16	0.6717	6.15e-06	Not normal	Not normal
Pooled Background	Lithium, Total	46	30	0.705	2.629e-08	Not normal	Not normal
CCR-AP-1R	Mercury, Total	22	21	0.2215	7.417e-10	Not normal	Not normal
CCR-AP-2R	Mercury, Total	22	21	0.2215	7.417e-10	Not normal	Not normal
CCR-AP-3R	Mercury, Total	21	12	0.4701	1.091e-07	Not normal	Not normal
CCR-AP-4R	Mercury, Total	22	22	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-AP-5R	Mercury, Total	19	19	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-AP-6	Mercury, Total	22	21	0.2215	7.417e-10	Not normal	Not normal
CCR-AP-7R	Mercury, Total	22	22	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-BK-1	Mercury, Total	22	22	NA	NA	Not Evaluated - All Non-Detect Results	Not Evaluated - All Non-Detect Results
CCR-BK-2	Mercury, Total	22	20	0.2215	7.417e-10	Not normal	Not normal
Pooled Background	Mercury, Total	44	42	0.1374	1.215e-14	Not normal	Not normal
CCR-AP-1R	Molybdenum, Total	23	2	0.9116	0.04411	Not normal	Normal
CCR-AP-2R	Molybdenum, Total	23	0	0.9612	0.4879	Normal	Normal
CCR-AP-3R	Molybdenum, Total	22	0	0.9499	0.3151	Normal	Normal
CCR-AP-4R	Molybdenum, Total	23	2	0.5787	5.315e-07	Not normal	Not normal
CCR-AP-5R	Molybdenum, Total	20	0	0.8648	0.009545	Not normal	Not normal
CCR-AP-6	Molybdenum, Total	23	1	0.8757	0.008253	Not normal	Not normal
CCR-AP-7R	Molybdenum, Total	23	19	0.2947	1.538e-09	Not normal	Not normal
CCR-BK-1	Molybdenum, Total	22	2	0.9114	0.05065	Normal	Normal
CCR-BK-2	Molybdenum, Total	23	13	0.7031	1.535e-05	Not normal	Not normal
Pooled Background	Molybdenum, Total	45	15	0.8567	5.472e-05	Not normal	Not normal
CCR-AP-1R	Radium-226 & 228	22	7	0.862	0.005581	Not normal	Not normal
CCR-AP-2R	Radium-226 & 228	20	5	0.9193	0.09599	Normal	Normal

Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)

Location	Constituent	n	n, non-detects	W statistic	p-value	Data Normality (significance level = 0.05)	Data Normality (significance level = 0.01)
CCR-AP-3R	Radium-226 & 228	21	4	0.92	0.08668	Normal	Normal
CCR-AP-4R	Radium-226 & 228	22	17	0.3282	4.538e-09	Not normal	Not normal
CCR-AP-5R	Radium-226 & 228	19	7	0.9309	0.1802	Normal	Normal
CCR-AP-6	Radium-226 & 228	20	15	0.3911	3.782e-08	Not normal	Not normal
CCR-AP-7R	Radium-226 & 228	20	9	0.9038	0.04871	Not normal	Normal
CCR-BK-1	Radium-226 & 228	20	9	0.6784	2.153e-05	Not normal	Not normal
CCR-BK-2	Radium-226 & 228	22	17	0.669	8.089e-06	Not normal	Not normal
Pooled Background	Radium-226 & 228	42	26	0.6986	5.507e-08	Not normal	Not normal
CCR-AP-1R	Selenium, Total	23	21	0.215	3.995e-10	Not normal	Not normal
CCR-AP-2R	Selenium, Total	23	19	0.4016	1.115e-08	Not normal	Not normal
CCR-AP-3R	Selenium, Total	22	2	0.8444	0.002704	Not normal	Not normal
CCR-AP-4R	Selenium, Total	23	18	0.5316	1.742e-07	Not normal	Not normal
CCR-AP-5R	Selenium, Total	20	17	0.4761	1.947e-07	Not normal	Not normal
CCR-AP-6	Selenium, Total	23	21	0.2558	7.864e-10	Not normal	Not normal
CCR-AP-7R	Selenium, Total	23	20	0.2727	1.05e-09	Not normal	Not normal
CCR-BK-1	Selenium, Total	23	19	0.443	2.554e-08	Not normal	Not normal
CCR-BK-2	Selenium, Total	23	20	0.3465	3.911e-09	Not normal	Not normal
Pooled Background	Selenium, Total	46	39	0.3965	1.683e-12	Not normal	Not normal
CCR-AP-1R	Thallium, Total	22	18	0.4555	5.151e-08	Not normal	Not normal
CCR-AP-2R	Thallium, Total	22	20	0.3861	1.315e-08	Not normal	Not normal
CCR-AP-3R	Thallium, Total	21	20	0.4464	6.764e-08	Not normal	Not normal
CCR-AP-4R	Thallium, Total	22	19	0.4319	3.202e-08	Not normal	Not normal
CCR-AP-5R	Thallium, Total	19	15	0.5101	6.179e-07	Not normal	Not normal
CCR-AP-6	Thallium, Total	22	17	0.3376	5.373e-09	Not normal	Not normal
CCR-AP-7R	Thallium, Total	22	21	0.2625	1.457e-09	Not normal	Not normal
CCR-BK-1	Thallium, Total	22	20	0.3331	4.953e-09	Not normal	Not normal
CCR-BK-2	Thallium, Total	22	18	0.5878	9.842e-07	Not normal	Not normal
Pooled Background	Thallium, Total	44	38	0.4824	2.984e-11	Not normal	Not normal

Table A-3. Results of Rosner/Dixon Test for Outliers

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)										
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CCR-AP-1R	Antimony, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-2R	Antimony, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-3R	Antimony, Total	21	21	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-4R	Antimony, Total	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-5R	Antimony, Total	19	18	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Antimony, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Antimony, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Antimony, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Antimony, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
Pooled Background	Antimony, Total	44	40	Rosner	4.798, 4.093, 5.076	NA	3.076, 3.067, 3.057	3	NA	NA
CCR-AP-1R	Arsenic, Total	22	9	Dixon	0.5544	0.005032	NA	NA	Yes	NA
CCR-AP-2R	Arsenic, Total	22	7	Dixon	0.547	0.007761	NA	NA	Yes	NA
CCR-AP-3R	Arsenic, Total	21	14	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Arsenic, Total	22	13	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-5R	Arsenic, Total	20	15	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Arsenic, Total	22	1	Dixon	0.1751	0.7559	NA	NA	No	NA
CCR-AP-7R	Arsenic, Total	21	6	Dixon	0.5556	0.008313	NA	NA	Yes	NA
CCR-BK-1	Arsenic, Total	22	9	Dixon	0	0	NA	NA	Yes	NA
CCR-BK-2	Arsenic, Total	23	14	Dixon	0.2589	0.6833	NA	NA	No	NA
Pooled Background	Arsenic, Total	45	23	Rosner	2.931, 2.417, 2.498	NA	3.085, 3.076, 3.067	0	NA	NA
CCR-AP-1R	Barium, Total	23	0	Dixon	0.3385	0.3123	NA	NA	No	NA
CCR-AP-2R	Barium, Total	23	0	Dixon	0.35	0.2723	NA	NA	No	NA
CCR-AP-3R	Barium, Total	22	0	Dixon	0.9252	0	NA	NA	Yes	NA
CCR-AP-4R	Barium, Total	23	0	Dixon	0.2632	0.6593	NA	NA	No	NA
CCR-AP-5R	Barium, Total	20	0	Dixon	0.375	0.2751	NA	NA	No	NA
CCR-AP-6	Barium, Total	23	1	Dixon	0.5385	0.007607	NA	NA	Yes	NA
CCR-AP-7R	Barium, Total	23	0	Dixon	0.3659	0.2229	NA	NA	No	NA
CCR-BK-1	Barium, Total	23	0	Dixon	0.2321	0.8416	NA	NA	No	NA
CCR-BK-2	Barium, Total	23	0	Dixon	0.8644	0	NA	NA	Yes	NA
Pooled Background	Barium, Total	46	0	Rosner	5.162, 3.484, 3.711	NA	3.094, 3.085, 3.076	3	NA	NA
CCR-AP-1R	Beryllium, Total	22	19	Dixon	0.2874	0.5623	NA	NA	No	NA
CCR-AP-2R	Beryllium, Total	22	18	Dixon	0.9375	0	NA	NA	Yes	NA
CCR-AP-3R	Beryllium, Total	21	19	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-4R	Beryllium, Total	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-5R	Beryllium, Total	19	17	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-6	Beryllium, Total	22	19	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Beryllium, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Beryllium, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Beryllium, Total	22	19	Dixon	0.6875	0	NA	NA	Yes	NA
Pooled Background	Beryllium, Total	44	40	Rosner	4.537, 5.37, 5.513	NA	3.076, 3.067, 3.057	3	NA	NA
CCR-AP-1R	Cadmium, Total	23	18	Dixon	0.1538	0.6497	NA	NA	No	NA
CCR-AP-2R	Cadmium, Total	23	7	Dixon	0.8936	0	NA	NA	Yes	NA
CCR-AP-3R	Cadmium, Total	22	10	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Cadmium, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-5R	Cadmium, Total	20	15	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Cadmium, Total	23	20	Dixon	0.9395	0	NA	NA	Yes	NA
CCR-AP-7R	Cadmium, Total	23	16	Dixon	0.9278	0	NA	NA	Yes	NA
CCR-BK-1	Cadmium, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Cadmium, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
Pooled Background	Cadmium, Total	46	44	Rosner	5.581, 6.559, NA	NA	3.094, 3.085, 3.076	2	NA	NA
CCR-AP-1R	Chromium, Total	23	21	Dixon	0.9211	0	NA	NA	Yes	NA
CCR-AP-2R	Chromium, Total	23	20	Dixon	0.7111	0	NA	NA	Yes	NA
CCR-AP-3R	Chromium, Total	22	20	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Chromium, Total	22	3	Dixon	0.1333	0.4999	NA	NA	No	NA
CCR-AP-5R	Chromium, Total	20	19	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Chromium, Total	22	17	Dixon	0.5667	0.0004938	NA	NA	Yes	NA
CCR-AP-7R	Chromium, Total	22	12	Dixon	0.7387	0	NA	NA	Yes	NA
CCR-BK-1	Chromium, Total	22	7	Dixon	0.6835	0	NA	NA	Yes	NA
CCR-BK-2	Chromium, Total	22	16	Dixon	0.5195	0.0177	NA	NA	Yes	NA
Pooled Background	Chromium, Total	44	23	Rosner	3.889, 4.129, 2.787	NA	3.076, 3.067, 3.057	2	NA	NA
CCR-AP-1R	Cobalt, Total	23	5	Dixon	0.787	0	NA	NA	Yes	NA
CCR-AP-2R	Cobalt, Total	23	0	Dixon	0.7966	0	NA	NA	Yes	NA
CCR-AP-3R	Cobalt, Total	21	5	Dixon	0.2575	0.7668	NA	NA	No	NA
CCR-AP-4R	Cobalt, Total	23	14	Dixon	0.8946	0	NA	NA	Yes	NA
CCR-AP-5R	Cobalt, Total	20	12	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Cobalt, Total	23	0	Dixon	0.4717	0.04025	NA	NA	Yes	NA
CCR-AP-7R	Cobalt, Total	23	3	Dixon	0.3968	0.1453	NA	NA	No	NA

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CCR-BK-1	Cobalt, Total	22	6	Dixon	0.6415	0	NA	NA	Yes	NA
CCR-BK-2	Cobalt, Total	23	13	Dixon	0.7705	0	NA	NA	Yes	NA
Pooled Background	Cobalt, Total	45	19	Rosner	5.455, 3.97, 3.764	NA	3.085, 3.076, 3.067	3	NA	NA
CCR-AP-1R	Fluoride	23	3	Dixon	0.8114	0	NA	NA	Yes	NA
CCR-AP-2R	Fluoride	23	3	Dixon	0.4	0.1386	NA	NA	No	NA
CCR-AP-3R	Fluoride	22	0	Dixon	0.1099	0.365	NA	NA	No	NA
CCR-AP-4R	Fluoride	23	0	Dixon	0.5526	0.002359	NA	NA	Yes	NA
CCR-AP-5R	Fluoride	20	2	Dixon	0.1515	0.5501	NA	NA	No	NA
CCR-AP-6	Fluoride	23	3	Dixon	0.5634	0	NA	NA	Yes	NA
CCR-AP-7R	Fluoride	21	4	Dixon	0.7059	0	NA	NA	Yes	NA
CCR-BK-1	Fluoride	22	2	Dixon	0.2157	0.9828	NA	NA	No	NA
CCR-BK-2	Fluoride	21	3	Dixon	0.5	0.03305	NA	NA	Yes	NA
Pooled Background	Fluoride	43	5	Rosner	1.643, 1.669, 1.7	NA	3.067, 3.057, 3.047	0	NA	NA
CCR-AP-1R	Lead, Total	23	18	Dixon	0.7018	0	NA	NA	Yes	NA
CCR-AP-2R	Lead, Total	23	14	Dixon	0.0396	0.06386	NA	NA	No	NA
CCR-AP-3R	Lead, Total	22	17	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Lead, Total	23	16	Dixon	0.1084	0.3736	NA	NA	No	NA
CCR-AP-5R	Lead, Total	20	18	Dixon	0.9556	0	NA	NA	Yes	NA
CCR-AP-6	Lead, Total	23	13	Dixon	0.2935	0.5016	NA	NA	No	NA
CCR-AP-7R	Lead, Total	22	7	Dixon	0.6612	0	NA	NA	Yes	NA
CCR-BK-1	Lead, Total	23	5	Dixon	0.1915	0.8969	NA	NA	No	NA
CCR-BK-2	Lead, Total	23	15	Dixon	0.819	0	NA	NA	Yes	NA
Pooled Background	Lead, Total	46	20	Rosner	6.228, 3.848, 3.946	NA	3.094, 3.085, 3.076	3	NA	NA
CCR-AP-1R	Lithium, Total	23	12	Dixon	0.6396	0	NA	NA	Yes	NA
CCR-AP-2R	Lithium, Total	23	0	Dixon	0.3333	0.3311	NA	NA	No	NA
CCR-AP-3R	Lithium, Total	22	0	Dixon	0.2632	0.693	NA	NA	No	NA
CCR-AP-4R	Lithium, Total	23	22	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-5R	Lithium, Total	20	3	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Lithium, Total	23	1	Dixon	0.2405	0.7909	NA	NA	No	NA
CCR-AP-7R	Lithium, Total	23	1	Dixon	0.4286	0.08852	NA	NA	No	NA
CCR-BK-1	Lithium, Total	23	14	Dixon	0	0	NA	NA	Yes	NA
CCR-BK-2	Lithium, Total	23	16	Dixon	0	0	NA	NA	Yes	NA
Pooled Background	Lithium, Total	46	30	Rosner	1.216, 1.25, 1.287	NA	3.094, 3.085, 3.076	0	NA	NA
CCR-AP-1R	Mercury, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-2R	Mercury, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-3R	Mercury, Total	21	12	Dixon	0.7865	0	NA	NA	Yes	NA
CCR-AP-4R	Mercury, Total	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-5R	Mercury, Total	19	19	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-6	Mercury, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Mercury, Total	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-BK-1	Mercury, Total	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-BK-2	Mercury, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
Pooled Background	Mercury, Total	44	42	Rosner	6.482, NA, NA	NA	3.076, 3.067, 3.057	1	NA	NA
CCR-AP-1R	Molybdenum, Total	23	2	Dixon	0.4898	0.02768	NA	NA	Yes	NA
CCR-AP-2R	Molybdenum, Total	23	0	Dixon	0.2553	0.7037	NA	NA	No	NA
CCR-AP-3R	Molybdenum, Total	22	0	Dixon	0.225	0.9237	NA	NA	No	NA
CCR-AP-4R	Molybdenum, Total	23	2	Dixon	0.7237	0	NA	NA	Yes	NA
CCR-AP-5R	Molybdenum, Total	20	0	Dixon	0.2976	0.5861	NA	NA	No	NA
CCR-AP-6	Molybdenum, Total	23	1	Dixon	0.5	0.02229	NA	NA	Yes	NA
CCR-AP-7R	Molybdenum, Total	23	19	Dixon	0.9414	0	NA	NA	Yes	NA
CCR-BK-1	Molybdenum, Total	22	2	Dixon	0.3396	0.335	NA	NA	No	NA
CCR-BK-2	Molybdenum, Total	23	13	Dixon	0.0603	0.1388	NA	NA	No	NA
Pooled Background	Molybdenum, Total	45	15	Rosner	2.071, 1.571, 1.491	NA	3.085, 3.076, 3.067	0	NA	NA
CCR-AP-1R	Radium-226 & 228	22	7	Dixon	0.5992	0	NA	NA	Yes	NA
CCR-AP-2R	Radium-226 & 228	20	5	Dixon	0.1382	0.4733	NA	NA	No	NA
CCR-AP-3R	Radium-226 & 228	21	4	Dixon	0.3008	0.5318	NA	NA	No	NA
CCR-AP-4R	Radium-226 & 228	22	17	Dixon	0.9116	0	NA	NA	Yes	NA
CCR-AP-5R	Radium-226 & 228	19	7	Dixon	0.5187	0.03618	NA	NA	Yes	NA
CCR-AP-6	Radium-226 & 228	20	15	Dixon	0.8837	0	NA	NA	Yes	NA
CCR-AP-7R	Radium-226 & 228	20	9	Dixon	0.3653	0.3071	NA	NA	No	NA
CCR-BK-1	Radium-226 & 228	20	9	Dixon	0.7727	0	NA	NA	Yes	NA
CCR-BK-2	Radium-226 & 228	22	17	Dixon	0.569	0	NA	NA	Yes	NA
Pooled Background	Radium-226 & 228	42	26	Rosner	3.914, 3.785, 3.538	NA	3.057, 3.047, 3.036	3	NA	NA
CCR-AP-1R	Selenium, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-2R	Selenium, Total	23	19	Dixon	0.9294	0	NA	NA	Yes	NA
CCR-AP-3R	Selenium, Total	22	2	Dixon	0.4	0.1567	NA	NA	No	NA
CCR-AP-4R	Selenium, Total	23	18	Dixon	0.2462	0.7568	NA	NA	No	NA
CCR-AP-5R	Selenium, Total	20	17	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Selenium, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Selenium, Total	23	20	Dixon	1	0	NA	NA	Yes	NA

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CCR-BK-1	Selenium, Total	23	19	Dixon	0.1408	0.5676	NA	NA	No	NA
CCR-BK-2	Selenium, Total	23	20	Dixon	0.9507	0	NA	NA	Yes	NA
Pooled Background	Selenium, Total	46	39	Rosner	3.189, 3.489, 4.079	NA	3.094, 3.085, 3.076	3	NA	NA
CCR-AP-1R	Thallium, Total	22	18	Dixon	0.1991	0.9106	NA	NA	No	NA
CCR-AP-2R	Thallium, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-3R	Thallium, Total	21	20	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Thallium, Total	22	19	Dixon	0.4154	0.1252	NA	NA	No	NA
CCR-AP-5R	Thallium, Total	19	15	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Thallium, Total	22	17	Dixon	0.9178	0	NA	NA	Yes	NA
CCR-AP-7R	Thallium, Total	22	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Thallium, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Thallium, Total	22	18	Dixon	0.2971	0.5149	NA	NA	No	NA
Pooled Background	Thallium, Total	44	38	Rosner	3.413, 3.866, 3.513	NA	3.076, 3.067, 3.057	3	NA	NA

Table A-4. Results of Mann Kendall and Thiel Sen Trend Tests

		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)													
		Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)					
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
CCR-AP-1R	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	22	1	0.0648	NA	NA	NA	NA	NA	NA	NA	8	1	0.11	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	1.5	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Antimony, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	21	0	1.45	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Antimony, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	19	1	1.4	NA	NA	NA	NA	NA	NA	NA	8	1	1.5	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	1.38	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	1.42	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.245	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	2	0.14	NA	NA	NA	NA	NA	NA	NA	8	1	0.141	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	44	4	0.196	NA	NA	NA	NA	NA	NA	NA	8	1	0.141	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Arsenic, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	13	1.12	0.0456	0.797	20.3	10	NA	NA	NA	8	2	0.761	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Arsenic, Total	No Trend	No Trend	22	15	1.11	0.124	0.444	55.6	28	NA	NA	NA	8	7	0.626	2021-05-18 to 2024-11-05	0.143	0.711	28.9	4	NA	NA	NA	NA
CCR-AP-3R	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	7	1.25	NA	NA	NA	NA	NA	NA	NA	8	3	0.856	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	9	1.03	NA	NA	NA	NA	NA	NA	NA	8	2	0.761	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	5	1.15	NA	NA	NA	NA	NA	NA	NA	8	2	0.858	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Arsenic, Total	Decreasing	No Trend	22	21	0.69	-0.413	0.00798	99.2	-95	-1e-06	0.0035	-0.00036	8	8	0.485	2021-05-19 to 2024-11-07	0.286	0.386	61.4	8	NA	NA	NA	NA
CCR-AP-7R	Arsenic, Total	No Trend	Probably Increasing	21	15	0.834	0.0971	0.564	43.6	20	NA	NA	NA	8	4	0.663	2021-05-19 to 2024-11-07	0.564	0.0842	91.6	14	NA	NA	NA	NA
CCR-BK-1	Arsenic, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	13	0.81	0.166	0.314	68.6	36	NA	NA	NA	8	2	0.858	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	9	0.955	NA	NA	NA	NA	NA	NA	NA	8	2	0.778	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	45	22	0.892	NA	NA	NA	NA	NA	NA	NA	8	3	0.596	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Barium, Total	Increasing	Increasing	23	23	0.583	0.602	0.0000727	100	151	1.3e-05	0.012	0.0049	8	8	0.324	2021-05-18 to 2024-11-06	0.764	0.0126	98.7	21	3.3e-05	0.031	0.012	
CCR-AP-2R	Barium, Total	No Trend	No Trend	23	23	0.255	0.036	0.832	16.8	9	NA	NA	NA	8	8	0.253	2021-05-18 to 2024-11-05	0.286	0.386	61.4	8	NA	NA	NA	NA
CCR-AP-3R	Barium, Total	No Trend	No Trend	22	22	1.27	0.072	0.669	33.1	16	NA	NA	NA	8	8	0.334	2021-05-18 to 2024-11-05	0.255	0.454	54.6	7	NA	NA	NA	NA
CCR-AP-4R	Barium, Total	Stable	Probably Decreasing	23	23	0.341	-0.25	0.101	89.9	-63	NA	NA	NA	8	8	0.33	2021-05-18 to 2024-11-06	-0.571	0.0635	93.7	-16	NA	NA	NA	NA
CCR-AP-5R	Barium, Total	Increasing	Stable	20	20	0.139	0.369	0.0319	96.8	66	1.1e-06	0.016	0.00039	8	8	0.0727	2019-10-17 to 2024-11-05	-0.34	0.311	68.9	-9	NA	NA	NA	NA
CCR-AP-6	Barium, Total	Decreasing	Stable	23	22	0.499	-0.461	0.00287	99.7	-113	-4.1e-06	0.023	-0.0015	8	8	0.425	2021-05-19 to 2024-11-07	-0.0806	0.894	10.6	-2	NA	NA	NA	NA
CCR-AP-7R	Barium, Total	Decreasing	Stable	23	23	0.329	-0.504	0.00101	99.9	-125	-5.5e-06	0.037	-0.002	8	8	0.253	2021-05-19 to 2024-11-07	-0.255	0.454	54.6	-7	NA	NA	NA	NA
CCR-BK-1	Barium, Total	Probably Increasing	No Trend	23	23	0.365	0.282	0.0673	93.3	70	NA	NA	NA	8	8	0.333	2021-05-19 to 2024-11-07	0.473	0.135	86.5	13	NA	NA	NA	NA
CCR-BK-2	Barium, Total	Stable	Decreasing	23	23	0.574	-0.228	0.143	85.7	-56	NA	NA	NA	8	8	0.157	2021-05-19 to 2024-11-06	-0.643	0.0416	95.8	-17	-7.4e-06	0.04	-0.0027	
Pooled Background	Barium, Total	No Trend	Stable	46	46	0.469	0.0425	0.69	31	43	NA	NA	NA	8	8	0.424	NA	-0.0378	1	0	-1	NA	NA	NA	NA

Note:
Mann Kendall test run on seasonally adjusted data for Radium-226 & 228 in CCR-BK-2 due to presence of statistically significant seasonal trend, determined by review of Kruskal Wallis test results (95% confidence level) and time series plots, where n seasons = 4 and (Dec-Feb, Mar-May, Jun-Aug, Sept-Nov).
Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)															
Mann Kendall Trends				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
CCR-AP-1R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	3	0.278	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	4	1.58	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	21	2	1.52	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Beryllium, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	19	2	1.54	NA	NA	NA	NA	NA	NA	NA	8	0	1.5	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	3	0.18	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.2	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Beryllium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.168	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	3	0.165	NA	NA	NA	NA	NA	NA	NA	8	1	0.133	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	44	4	0.165	NA	NA	NA	NA	NA	NA	NA	8	1	0.133	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.317	NA	NA	NA	NA	NA	NA	NA	8	1	0.306	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Cadmium, Total	No Trend	Stable	23	16	1.58	-0.061	0.71	29	-15	NA	NA	NA	8	4	0.254	2021-05-18 to 2024-11-05	-0.206	0.592	40.8	-5	NA	NA	NA	NA
CCR-AP-3R	Cadmium, Total	Probably Increasing	Not Evaluated - Majority of data (>50%) non-detect	22	12	1.7	0.317	0.0504	95	69	NA	NA	NA	8	2	0.219	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.229	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	5	1.52	NA	NA	NA	NA	NA	NA	NA	8	3	1.65	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	1.47	NA	NA	NA	NA	NA	NA	NA	8	1	0.314	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	7	1.62	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Cadmium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.177	NA	NA	NA	NA	NA	NA	NA	8	1	0.323	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Cadmium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.111	NA	NA	NA	NA	NA	NA	NA	8	1	0.197	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	46	2	0.146	NA	NA	NA	NA	NA	NA	NA	8	2	0.385	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	1.88	NA	NA	NA	NA	NA	NA	NA	8	0	0.458	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	3	1.26	NA	NA	NA	NA	NA	NA	NA	8	0	0.497	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	1.3	NA	NA	NA	NA	NA	NA	NA	8	0	0.487	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Chromium, Total	No Trend	No Trend	22	19	0.305	0.0266	0.887	11.3	6	NA	NA	NA	8	5	0.274	2021-05-18 to 2024-11-06	0.182	0.618	38.2	5	NA	NA	NA	NA

Note:

Mann Kendall test run on seasonally adjusted data for Radium-226 & 228 in CCR-BK-2 due to presence of statistically significant seasonal trend, determined by review of Kruskal Wallis test results (95% confidence level) and time series plots, where n seasons = 4 and (Dec-Feb, Mar-May, Jun-Aug, Sept-Nov). Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)															
Mann Kendall Trends				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
CCR-AP-5R	Chromium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	20	1	1.23	NA	NA	NA	NA	NA	NA	NA	8	0	1.03	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	1.15	NA	NA	NA	NA	NA	NA	NA	8	1	0.668	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	10	0.983	NA	NA	NA	NA	NA	NA	NA	8	1	0.455	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Chromium, Total	No Trend	Increasing	22	15	0.76	0.104	0.53	47	23	NA	NA	NA	8	4	0.433	2021-05-19 to 2024-11-07	0.718	0.0219	97.8	19	1.4e-06	0.0008	0.00052	
CCR-BK-2	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	6	0.996	NA	NA	NA	NA	NA	NA	NA	8	2	0.703	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	44	21	0.876	NA	NA	NA	NA	NA	NA	NA	8	4	0.343	NA	0.113	0.799	20.1	3	NA	NA	NA	NA
CCR-AP-1R	Cobalt, Total	Decreasing	No Trend	23	18	1.86	-0.496	0.00121	99.9	-123	-4e-07	0.0011	-0.00015	8	4	0.543	2021-05-18 to 2024-11-06	0.309	0.369	63.1	8	NA	NA	NA	
CCR-AP-2R	Cobalt, Total	Stable	Probably Decreasing	23	23	0.437	-0.0364	0.832	16.8	-9	NA	NA	NA	8	8	0.202	2021-05-18 to 2024-11-05	-0.571	0.0635	93.7	-16	NA	NA	NA	
CCR-AP-3R	Cobalt, Total	No Trend	Stable	21	16	0.989	0.144	0.38	62	30	NA	NA	NA	8	8	0.259	2021-05-18 to 2024-11-05	-0.286	0.386	61.4	-8	NA	NA	NA	
CCR-AP-4R	Cobalt, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	9	1.48	NA	NA	NA	NA	NA	NA	NA	8	0	0.356	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-5R	Cobalt, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	8	1.32	NA	NA	NA	NA	NA	NA	NA	8	3	1.25	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Cobalt, Total	Decreasing	No Trend	23	23	0.892	-0.347	0.0229	97.7	-87	-5.2e-07	0.002	-0.00019	8	8	0.8	2021-05-19 to 2024-11-07	0.143	0.711	28.9	4	NA	NA	NA	
CCR-AP-7R	Cobalt, Total	Decreasing	Stable	23	20	1.05	-0.404	0.00762	99.2	-102	-4.1e-07	0.0014	-0.00015	8	6	0.433	2021-05-19 to 2024-11-07	-0.0714	0.902	9.8	-2	NA	NA	NA	
CCR-BK-1	Cobalt, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	16	1.05	-0.24	0.132	86.8	-54	NA	NA	NA	8	3	0.529	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	
CCR-BK-2	Cobalt, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	10	1.9	NA	NA	NA	NA	NA	NA	NA	8	2	0.873	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
Pooled Background	Cobalt, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	45	26	1.54	-0.0368	0.741	25.9	-34	NA	NA	NA	8	3	0.395	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Fluoride	No Trend	Decreasing	23	20	0.87	0.124	0.427	57.3	31	NA	NA	NA	8	8	0.235	2021-05-18 to 2024-11-06	-0.618	0.0461	95.4	-17	-0.00021	0.63	-0.076	
CCR-AP-2R	Fluoride	Stable	Stable	23	20	0.48	-0.212	0.169	83.1	-53	NA	NA	NA	8	7	0.263	2021-05-18 to 2024-11-05	-0.143	0.711	28.9	-4	NA	NA	NA	
CCR-AP-3R	Fluoride	No Trend	Stable	22	22	0.282	0.0976	0.552	44.8	22	NA	NA	NA	8	8	0.323	2021-05-18 to 2024-11-05	-0.0364	1	0	-1	NA	NA	NA	
CCR-AP-4R	Fluoride	Stable	Stable	23	23	0.235	-0.252	0.105	89.5	-62	NA	NA	NA	8	8	0.217	2021-05-18 to 2024-11-06	-0.327	0.319	68.1	-9	NA	NA	NA	
CCR-AP-5R	Fluoride	No Trend	Stable	20	18	0.329	0.0917	0.602	39.8	17	NA	NA	NA	8	8	0.372	2019-10-17 to 2024-11-05	-0.0364	1	0	-1	NA	NA	NA	
CCR-AP-6	Fluoride	No Trend	Stable	23	20	0.435	0.0605	0.71	29	15	NA	NA	NA	8	8	0.28	2021-05-19 to 2024-11-07	-0.154	0.7	30	-4	NA	NA	NA	
CCR-AP-7R	Fluoride	No Trend	Stable	21	17	0.491	0.137	0.412	58.8	28	NA	NA	NA	8	8	0.264	2021-05-19 to 2024-11-07	-0.371	0.258	74.2	-10	NA	NA	NA	
CCR-BK-1	Fluoride	Probably Decreasing	Stable	22	20	0.302	-0.311	0.0506	94.9	-70	NA	NA	NA	8	7	0.387	2021-05-19 to 2024-11-07	-0.445	0.167	83.3	-12	NA	NA	NA	
CCR-BK-2	Fluoride	Stable	Stable	21	18	0.428	-0.0442	0.808	19.2	-9	NA	NA	NA	8	6	0.572	2021-05-19 to 2024-11-06	-0.214	0.536	46.4	-6	NA	NA	NA	
Pooled Background	Fluoride	Stable	No Trend	43	38	0.469	-0.145	0.18	82	-129	NA	NA	NA	8	7	0.357	NA	0.0741	0.9	10	2	NA	NA	NA	
CCR-AP-1R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	5	0.449	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	9	1.6	NA	NA	NA	NA	NA	NA	NA	8	2	0.085	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	1.51	NA	NA	NA	NA	NA	NA	NA	8	1	0.147	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	7	0.397	NA	NA	NA	NA	NA	NA	NA	8	2	0.249	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	20	2	1.47	NA	NA	NA	NA	NA	NA	NA	8	0	1.5	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA

Note:

Mann Kendall test run on seasonally adjusted data for Radium-226 & 228 in CCR-BK-2 due to presence of statistically significant seasonal trend, determined by review of Kruskal Wallis test results (95% confidence level) and time series plots, where n seasons = 4 and (Dec-Feb, Mar-May, Jun-Aug, Sept-Nov).

Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)															
Mann Kendall Trends				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
CCR-AP-6	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	10	1.34	NA	NA	NA	NA	NA	NA	NA	8	2	0.671	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Lead, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	15	1.34	0.0314	0.864	13.6	7	NA	NA	NA	8	2	0.193	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Lead, Total	Stable	No Trend	23	18	0.618	-0.0323	0.852	14.8	-8	NA	NA	NA	8	4	0.356	2021-05-19 to 2024-11-07	0.403	0.232	76.8	10	NA	NA	NA	
CCR-BK-2	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	8	1.89	NA	NA	NA	NA	NA	NA	NA	8	2	0.898	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
Pooled Background	Lead, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	46	26	1.95	-0.0439	0.692	30.8	-41	NA	NA	NA	8	3	0.148	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	23	11	1.18	NA	NA	NA	NA	NA	NA	NA	8	4	0.412	2021-05-18 to 2024-11-06	0.222	0.53	47	6	NA	NA	NA	
CCR-AP-2R	Lithium, Total	Decreasing	Stable	23	23	0.37	-0.636	0.0000288	100	-159	-1.2e-05	0.059	-0.0043	8	8	0.0541	2021-05-18 to 2024-11-05	-0.463	0.158	84.2	-12	NA	NA	NA	
CCR-AP-3R	Lithium, Total	Stable	No Trend	22	22	0.154	-0.0444	0.799	20.1	-10	NA	NA	NA	8	8	0.162	2021-05-18 to 2024-11-05	0.286	0.386	61.4	8	NA	NA	NA	
CCR-AP-4R	Lithium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.895	NA	NA	NA	NA	NA	NA	NA	8	1	0.354	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-5R	Lithium, Total	Stable	Stable	20	17	0.235	0	1	0	0	NA	NA	NA	8	6	0.266	2019-10-17 to 2024-11-05	-0.463	0.158	84.2	-12	NA	NA	NA	
CCR-AP-6	Lithium, Total	Decreasing	Decreasing	23	22	0.386	-0.665	0.0000125	100	-166	-9.1e-06	0.042	-0.0033	8	8	0.278	2021-05-19 to 2024-11-07	-0.741	0.017	98.3	-20	-5.6e-06	0.025	-0.0021	
CCR-AP-7R	Lithium, Total	Stable	Decreasing	23	22	0.256	-0.254	0.104	89.6	-62	NA	NA	NA	8	8	0.268	2021-05-19 to 2024-11-07	-0.667	0.0327	96.7	-18	-9.7e-06	0.025	-0.0035	
CCR-BK-1	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	23	9	0.853	NA	NA	NA	NA	NA	NA	NA	8	6	0.569	2021-05-19 to 2024-11-07	0.416	0.203	79.7	11	NA	NA	NA	
CCR-BK-2	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	Stable	23	7	0.899	NA	NA	NA	NA	NA	NA	NA	8	6	0.353	2021-05-19 to 2024-11-06	-0.182	0.618	38.2	-5	NA	NA	NA	
Pooled Background	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	Stable	46	16	0.869	NA	NA	NA	NA	NA	NA	NA	8	7	0.663	NA	0	1	0	0	NA	NA	NA	NA
CCR-AP-1R	Mercury, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.0322	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Mercury, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.043	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Mercury, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	21	9	0.895	NA	NA	NA	NA	NA	NA	NA	8	1	0.989	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	19	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2019-05-22 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Mercury, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.0979	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Mercury, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.204	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Mercury, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	44	2	0.147	NA	NA	NA	NA	NA	NA	NA	8	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Molybdenum, Total	No Trend	Stable	23	21	0.294	0.0924	0.56	44	23	NA	NA	NA	8	7	0.211	2021-05-18 to 2024-11-06	-0.5	0.108	89.2	-14	NA	NA	NA	
CCR-AP-2R	Molybdenum, Total	Stable	Decreasing	23	23	0.176	-0.12	0.455	54.5	-29	NA	NA	NA	8	8	0.222	2021-05-18 to 2024-11-05	-0.815	0.00832	99.2	-22	-0.00064	1.7	-0.23	
CCR-AP-3R	Molybdenum, Total	Stable	Probably Decreasing	22	22	0.136	-0.255	0.107	89.3	-58	NA	NA	NA	8	8	0.179	2021-05-18 to 2024-11-05	-0.546	0.0809	91.9	-15	NA	NA	NA	
CCR-AP-4R	Molybdenum, Total	Decreasing	No Trend	23	21	0.781	-0.54	0.000484	100	-132	-4.1e-07	0.0022	-0.00015	8	7	0.294	2021-05-18 to 2024-11-06	0.386	0.248	75.2	10	NA	NA	NA	
CCR-AP-5R	Molybdenum, Total	Increasing	Increasing	20	20	0.669	0.825	0.00000477	100	156	4.4e-05	0.022	0.016	8	8	0.392	2019-10-17 to 2024-11-05	0.982	0.00119	99.9	27	7.4e-05	0.048	0.027	
CCR-AP-6	Molybdenum, Total	Decreasing	Probably Decreasing	23	22	0.653	-0.837	0.000000286	100	-211	-3.2e-06	0.011	-0.0012	8	7	0.316	2021-05-19 to 2024-11-07	-0.571	0.0635	93.7	-16	NA	NA	NA	

Note:
Mann Kendall test run on seasonally adjusted data for Radium-226 & 228 in CCR-BK-2 due to presence of statistically significant seasonal trend, determined by review of Kruskal Wallis test results (95% confidence level) and time series plots, where n seasons = 4 and (Dec-Feb, Mar-May, Jun-Aug, Sept-Nov).
Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)															
Mann Kendall Trends				Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
CCR-AP-7R	Molybdenum, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	4	1.49	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Molybdenum, Total	Stable	Increasing	22	20	0.479	-0.214	0.182	81.8	-48	NA	NA	NA	8	8	0.439	2021-05-19 to 2024-11-07	0.857	0.00443	99.6	24	1.6e-06	0.00024	0.00059	
CCR-BK-2	Molybdenum, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	23	10	0.431	NA	NA	NA	NA	NA	NA	NA	8	4	0.521	2021-05-19 to 2024-11-06	0.403	0.232	76.8	10	NA	NA	NA	
Pooled Background	Molybdenum, Total	Stable	No Trend	45	30	0.456	-0.137	0.214	78.6	-123	NA	NA	NA	8	5	0.267	NA	0.161	0.69	31	4	NA	NA	NA	
CCR-AP-1R	Radium-226 & 228	No Trend	No Trend	22	15	0.786	0.169	0.284	71.6	39	NA	NA	NA	8	6	0.68	2021-05-18 to 2024-11-06	0.357	0.266	73.4	10	NA	NA	NA	
CCR-AP-2R	Radium-226 & 228	Stable	Stable	20	15	0.569	-0.253	0.127	87.3	-48	NA	NA	NA	8	4	0.72	2021-05-18 to 2024-11-05	-0.5	0.108	89.2	-14	NA	NA	NA	
CCR-AP-3R	Radium-226 & 228	No Trend	No Trend	21	17	0.582	0.0381	0.833	16.7	8	NA	NA	NA	8	6	0.625	2021-05-18 to 2024-11-05	0.429	0.174	82.6	12	NA	NA	NA	
CCR-AP-4R	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	2.74	NA	NA	NA	NA	NA	NA	NA	8	1	1	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-5R	Radium-226 & 228	Increasing	No Trend	19	12	0.575	0.446	0.00865	99.1	76	0.00013	0.31	0.048	8	6	0.478	2019-10-17 to 2024-11-05	0.143	0.711	28.9	4	NA	NA	NA	
CCR-AP-6	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	5	2.41	NA	NA	NA	NA	NA	NA	NA	8	2	0.878	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-7R	Radium-226 & 228	Probably Increasing	Stable	20	11	0.762	0.305	0.0644	93.6	58	NA	NA	NA	8	6	0.554	2021-05-19 to 2024-11-07	-0.214	0.536	46.4	-6	NA	NA	NA	
CCR-BK-1	Radium-226 & 228	Increasing	Stable	20	11	1.07	0.326	0.0478	95.2	62	0.00011	0.23	0.042	8	5	0.861	2021-05-19 to 2024-11-07	-0.357	0.266	73.4	-10	NA	NA	NA	
CCR-BK-2	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	5	1.58	NA	NA	NA	NA	NA	NA	NA	8	2	1.02	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
Pooled Background	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Stable	42	16	1.34	NA	NA	NA	NA	NA	NA	NA	8	4	0.734	NA	-0.0714	0.902	9.8	-2	NA	NA	NA	
CCR-AP-1R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	2	0.174	NA	NA	NA	NA	NA	NA	NA	8	1	0	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-2R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	4	1.61	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-3R	Selenium, Total	Stable	Decreasing	22	20	0.901	-0.21	0.184	81.6	-48	NA	NA	NA	8	8	0.994	2021-05-18 to 2024-11-05	-0.786	0.00937	99.1	-22	-1.2e-05	0.015	-0.0043	
CCR-AP-4R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.295	NA	NA	NA	NA	NA	NA	NA	8	1	0.0725	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-5R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	3	1.47	NA	NA	NA	NA	NA	NA	NA	8	2	1.6	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-6	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	2	1.38	NA	NA	NA	NA	NA	NA	NA	8	1	0.069	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-7R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	1.42	NA	NA	NA	NA	NA	NA	NA	8	1	0.0555	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	
CCR-BK-1	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	4	0.306	NA	NA	NA	NA	NA	NA	NA	8	1	0.028	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA	
CCR-BK-2	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.22	NA	NA	NA	NA	NA	NA	NA	8	1	0.0142	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
Pooled Background	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	46	7	0.263	NA	NA	NA	NA	NA	NA	NA	8	2	0.0332	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	4	0.335	NA	NA	NA	NA	NA	NA	NA	8	1	0.028	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-2R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	1.54	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-3R	Thallium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	21	1	1.44	NA	NA	NA	NA	NA	NA	NA	8	1	0.263	2021-05-18 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-4R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	3	0.284	NA	NA	NA	NA	NA	NA	NA	8	1	0.229	2021-05-18 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA	

Note:

Mann Kendall test run on seasonally adjusted data for Radium-226 & 228 in CCR-BK-2 due to presence of statistically significant seasonal trend, determined by review of Kruskal Wallis test results (95% confidence level) and time series plots, where n seasons = 4 and (Dec-Feb, Mar-May, Jun-Aug, Sept-Nov).

Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)														
		Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)					
Location	Constituent	Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)
CCR-AP-5R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	19	4	1.41	NA	NA	NA	NA	NA	NA	NA	8	3	1.44	2019-10-17 to 2024-11-05	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	5	1.61	NA	NA	NA	NA	NA	NA	NA	8	1	0.229	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Thallium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	1.42	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.23	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-05-19 to 2024-11-07	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	4	0.309	NA	NA	NA	NA	NA	NA	NA	8	2	0.309	2021-05-19 to 2024-11-06	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	44	6	0.269	NA	NA	NA	NA	NA	NA	NA	8	1	0.173	NA	NA	NA	NA	NA	NA	NA	NA

Note:
Mann Kendall test run on seasonally adjusted data for Radium-226 & 228 in CCR-BK-2 due to presence of statistically significant seasonal trend, determined by review of Kruskal Wallis test results (95% confidence level) and time series plots, where n seasons = 4 and (Dec-Feb, Mar-May, Jun-Aug, Sept-Nov).
Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Table A-5. Upper Tolerance Limits (UTLs)

Constituent	Units	Interwell Background Data Characterization [a]											Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		Minimum Coverage (%)			
		n	n, non-detects	max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	Thiel-Sen trend confirmaion	data distribution (Shapiro Wilks) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RLS	GWPS		GWPS Source	UTL calculation method	UTL calculation details
Antimony, Total	mg/L	44	40	0.002	0.00062	0.00185	0.002	2016-06-08	2024-11-07	0.000469	0.196	Majority of data (>75%) non-detects	Majority of data (>75%) non-detects	Not normal (Interwell Background)	NA - Original Data	0.002	No	0.006	0.006	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.4
Arsenic, Total	mg/L	45	23	0.005	0.0035	0.0014	0.001	2016-06-08	2024-11-07	0.00131	0.892	No Trend	No Trend	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.01	0.01	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.6
Barium, Total	mg/L	46	0	NA	0.15	0.0438	0.037	2016-06-08	2024-11-07	0.0206	0.469	No Trend	No Trend	Not normal (Interwell Background)	NA - Original Data	0.15	Yes	2	2	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.7
Beryllium, Total	mg/L	44	40	0.001	0.0004	0.000932	0.001	2016-06-08	2024-11-07	0.000219	0.165	Majority of data (>75%) non-detects	Majority of data (>75%) non-detects	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.004	0.004	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.4
Cadmium, Total	mg/L	46	44	0.001	0.00024	0.000964	0.001	2016-06-08	2024-11-07	0.000173	0.146	Majority of data (>75%) non-detects	Majority of data (>75%) non-detects	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.005	0.005	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.7
Chromium, Total	mg/L	44	23	0.005	0.0087	0.0026	0.002	2016-06-08	2024-11-07	0.00166	0.876	No Trend	No Trend	Not normal (Interwell Background)	NA - Original Data	0.0087	Yes	0.1	0.1	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.4
Cobalt, Total	mg/L	45	19	0.001	0.0062	0.000783	0.0005	2016-06-08	2024-11-07	0.000985	1.54	No Trend	No Trend	Not normal (Interwell Background)	NA - Original Data	0.0062	Yes	0.006	0.0062	Interwell UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.6
Fluoride	mg/L	43	5	0.23	0.38	0.228	0.2	2016-08-10	2024-11-07	0.0942	0.469	Stable	No Trend	Not normal (Interwell Background)	NA - Original Data	0.38	Yes	4	4	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.3
Lead, Total	mg/L	46	20	0.001	0.011	0.00105	0.001	2016-06-08	2024-11-07	0.00161	1.95	No Trend	No Trend	Not normal (Interwell Background)	NA - Original Data	0.011	Yes	0.015	0.015	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.7
Lithium, Total	mg/L	46	30	0.05	0.011	0.0227	0.00725	2016-06-08	2024-11-07	0.0222	0.869	Decreasing	No Trend	Not normal (Interwell Background)	NA - Original Data	0.05	No	0.04	0.05	Interwell UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.7
Mercury, Total	mg/L	44	42	0.0002	0.0002	0.000198	0.0002	2016-06-08	2024-11-07	1.51e-05	0.147	Majority of data (>75%) non-detects	Majority of data (>75%) non-detects	Not normal (Interwell Background)	NA - Original Data	0.0002	No	0.002	0.002	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.4
Molybdenum, Total	mg/L	45	15	0.005	0.0034	0.00258	0.0017	2016-06-08	2024-11-07	0.00183	0.456	Stable	No Trend	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.1	0.1	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.6
Radium-226 & 228	pCi/L	42	26	2.74	3.13	0.62	0.39	2016-06-08	2024-11-07	0.722	1.34	Probably Increasing	No Trend	Not normal (Interwell Background)	NA - Original Data	3.13	Yes	5	5	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.1
Selenium, Total	mg/L	46	39	0.005	0.0027	0.00442	0.005	2016-06-08	2024-11-07	0.00144	0.263	Majority of data (>75%) non-detects	Majority of data (>75%) non-detects	Not normal (Interwell Background)	NA - Original Data	0.005	No	0.05	0.05	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.7
Thallium, Total	mg/L	44	38	0.001	0.00076	0.000898	0.001	2016-06-08	2024-11-07	0.000276	0.269	Majority of data (>75%) non-detects	Majority of data (>75%) non-detects	Not normal (Interwell Background)	NA - Original Data	0.001	No	0.002	0.002	MCL/RLS	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (non-detects substituted by reporting limit value)	93.4

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells (CCR-BK-1 and CCR-BK-2). Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the "maximum value" selected as the UTL is from a non-detect result, either because all results are non-detect or because reporting limit(s) exceed the maximum detected value.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals

Location	Constituent	Units	Confidence Interval (CI) Dataset						CI Calculation [a]			SSL Confirmation		Non-Parametric CI Statistics (if applicable)	
			n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	CI calculation method	degrees of freedom	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
CCR-AP-3R	Lithium, Total	mg/L	22	0.10	0.059	0.0755	0.075	0.012	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	21	0.0699	0.05	Yes	NA	NA
CCR-AP-2R	Molybdenum, Total	mg/L	23	2.00	0.96	1.6	1.58	0.28	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	22	1.46	0.10	Yes	NA	NA
CCR-AP-3R	Molybdenum, Total	mg/L	22	1.00	0.6	0.86	0.842	0.11	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	21	0.791	0.10	Yes	NA	NA
CCR-AP-5R	Molybdenum, Total	mg/L	20	0.19	0.016	0.0585	0.0759	0.051	Bootstrap Calculation of the Confidence Interval Around the Median (Non-Parametric)	19	0.0505	0.10	No	10000	0.055

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the sampling event dataset.

[a] The 95% lower confidence level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 99% confidence interval is also shown for purposes of comparison. UCL = upper confidence level.

Table A-7. Groundwater Protection Standard (GWPS) Summary

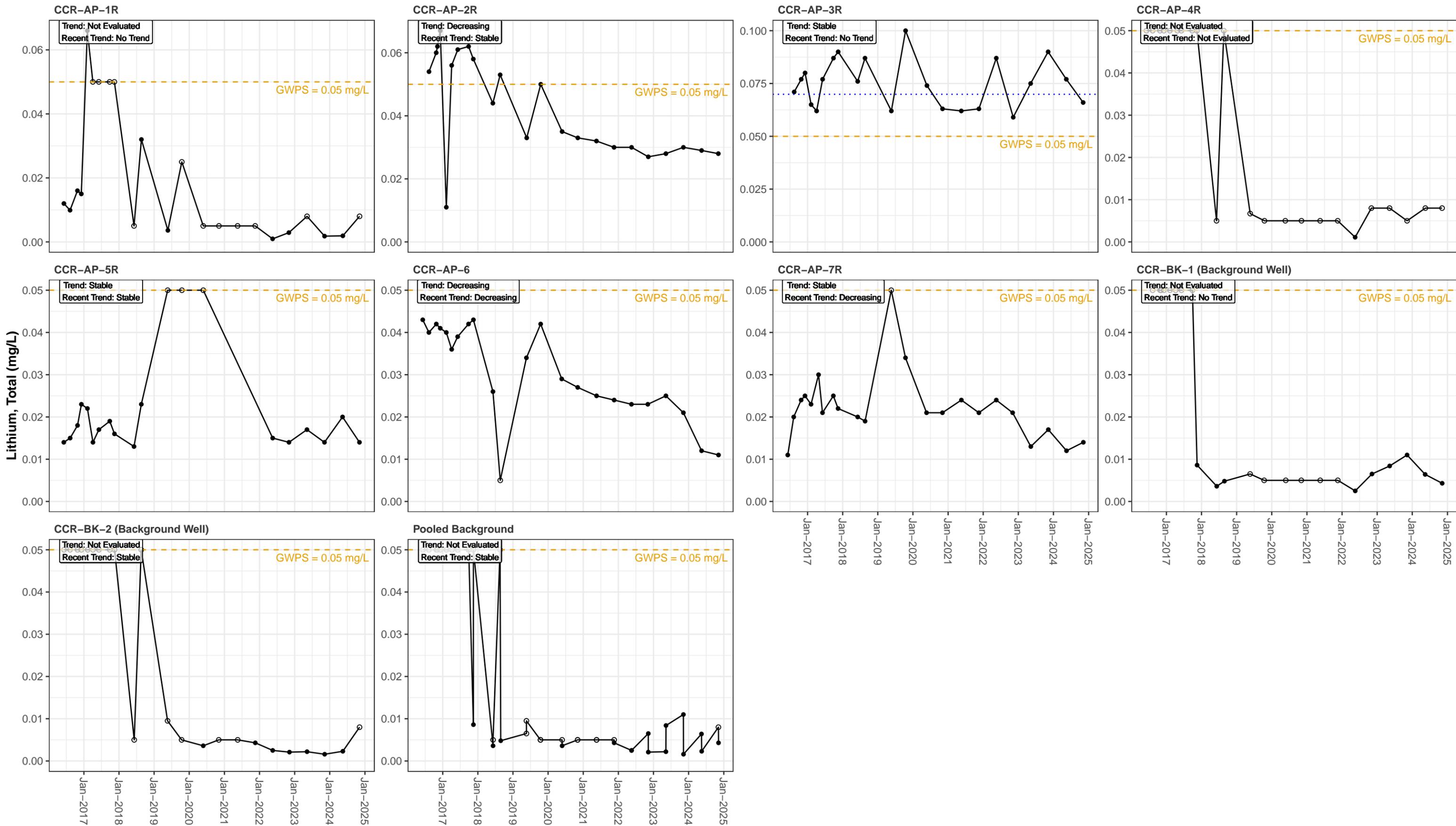
Background Data Location(s)	Constituent	Units	Interwell UTL	MCL/RSL	GWPS	GWPS Source	UTL Calculation Method
CCR-BK-1 & CCR-BK-2	Antimony, Total	mg/L	0.002	0.006	0.006	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Arsenic, Total	mg/L	0.005	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Barium, Total	mg/L	0.15	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Beryllium, Total	mg/L	0.001	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Cadmium, Total	mg/L	0.001	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Chromium, Total	mg/L	0.0087	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Cobalt, Total	mg/L	0.0062	0.006	0.0062	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Fluoride	mg/L	0.38	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Lead, Total	mg/L	0.011	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Lithium, Total	mg/L	0.05	0.04	0.05	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Mercury, Total	mg/L	0.0002	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Molybdenum, Total	mg/L	0.005	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Radium-226 & 228	pCi/L	3.13	5	5	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Selenium, Total	mg/L	0.005	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)
CCR-BK-1 & CCR-BK-2	Thallium, Total	mg/L	0.001	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)

Table A-8. Groundwater Protection Standard (GWPS) Comparison Table

Location	Constituent	Units	Sample Date	Sample Result	Interwell UTL	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CCR-AP-2R	Molybdenum, Total	mg/L	2024-11-05	1.2	0.005	0.1	Yes	1.46	Yes
CCR-AP-3R	Molybdenum, Total	mg/L	2024-11-05	0.6	0.005	0.1	Yes	0.791	Yes
CCR-AP-3R	Lithium, Total	mg/L	2024-11-05	0.066	0.05	0.05	Yes	0.0699	Yes
CCR-AP-5R	Molybdenum, Total	mg/L	2024-11-05	0.19	0.005	0.1	Yes	0.0505	No
CCR-AP-1R	Antimony, Total	mg/L	2024-11-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-2R	Antimony, Total	mg/L	2024-11-05	0.002 U	0.002	0.006	No	NA	No
CCR-AP-3R	Antimony, Total	mg/L	2024-11-05	0.002 U	0.002	0.006	No	NA	No
CCR-AP-4R	Antimony, Total	mg/L	2024-11-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-5R	Antimony, Total	mg/L	2024-11-05	0.002 U	0.002	0.006	No	NA	No
CCR-AP-6	Antimony, Total	mg/L	2024-11-07	0.002 U	0.002	0.006	No	NA	No
CCR-AP-7R	Antimony, Total	mg/L	2024-11-07	0.002 U	0.002	0.006	No	NA	No
CCR-AP-1R	Arsenic, Total	mg/L	2024-11-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-2R	Arsenic, Total	mg/L	2024-11-05	0.001 J	0.005	0.01	No	NA	No
CCR-AP-3R	Arsenic, Total	mg/L	2024-11-05	0.00087 J	0.005	0.01	No	NA	No
CCR-AP-4R	Arsenic, Total	mg/L	2024-11-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-5R	Arsenic, Total	mg/L	2024-11-05	0.00094 J	0.005	0.01	No	NA	No
CCR-AP-6	Arsenic, Total	mg/L	2024-11-07	0.00083 J	0.005	0.01	No	NA	No
CCR-AP-7R	Arsenic, Total	mg/L	2024-11-07	0.005 U	0.005	0.01	No	NA	No
CCR-AP-1R	Barium, Total	mg/L	2024-11-06	0.074	0.15	2	No	NA	No
CCR-AP-2R	Barium, Total	mg/L	2024-11-05	0.045	0.15	2	No	NA	No
CCR-AP-3R	Barium, Total	mg/L	2024-11-05	0.019	0.15	2	No	NA	No
CCR-AP-4R	Barium, Total	mg/L	2024-11-06	0.054	0.15	2	No	NA	No
CCR-AP-5R	Barium, Total	mg/L	2024-11-05	0.018	0.15	2	No	NA	No
CCR-AP-6	Barium, Total	mg/L	2024-11-07	0.011	0.15	2	No	NA	No
CCR-AP-7R	Barium, Total	mg/L	2024-11-07	0.02	0.15	2	No	NA	No
CCR-AP-1R	Beryllium, Total	mg/L	2024-11-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-2R	Beryllium, Total	mg/L	2024-11-05	0.001 U	0.001	0.004	No	NA	No
CCR-AP-3R	Beryllium, Total	mg/L	2024-11-05	0.001 U	0.001	0.004	No	NA	No
CCR-AP-4R	Beryllium, Total	mg/L	2024-11-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-5R	Beryllium, Total	mg/L	2024-11-05	0.001 U	0.001	0.004	No	NA	No
CCR-AP-6	Beryllium, Total	mg/L	2024-11-07	0.001 U	0.001	0.004	No	NA	No
CCR-AP-7R	Beryllium, Total	mg/L	2024-11-07	0.001 U	0.001	0.004	No	NA	No
CCR-AP-1R	Cadmium, Total	mg/L	2024-11-06	0.00011 J	0.001	0.005	No	NA	No
CCR-AP-2R	Cadmium, Total	mg/L	2024-11-05	0.00044 J	0.001	0.005	No	NA	No
CCR-AP-3R	Cadmium, Total	mg/L	2024-11-05	0.00027 J	0.001	0.005	No	NA	No
CCR-AP-4R	Cadmium, Total	mg/L	2024-11-06	0.001 U	0.001	0.005	No	NA	No
CCR-AP-5R	Cadmium, Total	mg/L	2024-11-05	0.00032 J	0.001	0.005	No	NA	No
CCR-AP-6	Cadmium, Total	mg/L	2024-11-07	0.0001 J	0.001	0.005	No	NA	No
CCR-AP-7R	Cadmium, Total	mg/L	2024-11-07	0.001 U	0.001	0.005	No	NA	No
CCR-AP-1R	Chromium, Total	mg/L	2024-11-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-2R	Chromium, Total	mg/L	2024-11-05	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-3R	Chromium, Total	mg/L	2024-11-05	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-4R	Chromium, Total	mg/L	2024-11-06	0.0025 J	0.0087	0.1	No	NA	No
CCR-AP-5R	Chromium, Total	mg/L	2024-11-05	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-6	Chromium, Total	mg/L	2024-11-07	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-7R	Chromium, Total	mg/L	2024-11-07	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-1R	Cobalt, Total	mg/L	2024-11-06	0.00074 J	0.0062	0.0062	No	NA	No
CCR-AP-2R	Cobalt, Total	mg/L	2024-11-05	0.002	0.0062	0.0062	No	NA	No
CCR-AP-3R	Cobalt, Total	mg/L	2024-11-05	0.00083 J	0.0062	0.0062	No	NA	No
CCR-AP-4R	Cobalt, Total	mg/L	2024-11-06	0.001 U	0.0062	0.0062	No	NA	No
CCR-AP-5R	Cobalt, Total	mg/L	2024-11-05	0.00037 J	0.0062	0.0062	No	NA	No
CCR-AP-6	Cobalt, Total	mg/L	2024-11-07	0.00042 J	0.0062	0.0062	No	NA	No
CCR-AP-7R	Cobalt, Total	mg/L	2024-11-07	0.00014 J	0.0062	0.0062	No	NA	No
CCR-AP-1R	Fluoride	mg/L	2024-11-06	0.34	0.38	4	No	NA	No
CCR-AP-2R	Fluoride	mg/L	2024-11-05	0.3 J+	0.38	4	No	NA	No
CCR-AP-3R	Fluoride	mg/L	2024-11-05	1	0.38	4	No	NA	No
CCR-AP-4R	Fluoride	mg/L	2024-11-06	0.34	0.38	4	No	NA	No
CCR-AP-5R	Fluoride	mg/L	2024-11-05	0.33	0.38	4	No	NA	No
CCR-AP-6	Fluoride	mg/L	2024-11-07	0.12 J	0.38	4	No	NA	No
CCR-AP-7R	Fluoride	mg/L	2024-11-07	0.14 J	0.38	4	No	NA	No
CCR-AP-1R	Lead, Total	mg/L	2024-11-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-2R	Lead, Total	mg/L	2024-11-05	0.001 U	0.011	0.015	No	NA	No
CCR-AP-3R	Lead, Total	mg/L	2024-11-05	0.001 U	0.011	0.015	No	NA	No
CCR-AP-4R	Lead, Total	mg/L	2024-11-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-5R	Lead, Total	mg/L	2024-11-05	0.001 U	0.011	0.015	No	NA	No

Location	Constituent	Units	Sample Date	Sample Result	Interwell UTL	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CCR-AP-6	Lead, Total	mg/L	2024-11-07	0.001 U	0.011	0.015	No	NA	No
CCR-AP-7R	Lead, Total	mg/L	2024-11-07	0.001 U	0.011	0.015	No	NA	No
CCR-AP-1R	Lithium, Total	mg/L	2024-11-06	0.008 U	0.05	0.05	No	NA	No
CCR-AP-2R	Lithium, Total	mg/L	2024-11-05	0.028	0.05	0.05	No	NA	No
CCR-AP-4R	Lithium, Total	mg/L	2024-11-06	0.008 U	0.05	0.05	No	NA	No
CCR-AP-5R	Lithium, Total	mg/L	2024-11-05	0.014	0.05	0.05	No	NA	No
CCR-AP-6	Lithium, Total	mg/L	2024-11-07	0.011	0.05	0.05	No	NA	No
CCR-AP-7R	Lithium, Total	mg/L	2024-11-07	0.014	0.05	0.05	No	NA	No
CCR-AP-1R	Mercury, Total	mg/L	2024-11-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-2R	Mercury, Total	mg/L	2024-11-05	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-3R	Mercury, Total	mg/L	2024-11-05	0.00053 J+	0.0002	0.002	No	NA	No
CCR-AP-4R	Mercury, Total	mg/L	2024-11-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-5R	Mercury, Total	mg/L	2024-11-05	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-6	Mercury, Total	mg/L	2024-11-07	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-7R	Mercury, Total	mg/L	2024-11-07	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-1R	Molybdenum, Total	mg/L	2024-11-06	0.0038 J	0.005	0.1	No	NA	No
CCR-AP-4R	Molybdenum, Total	mg/L	2024-11-06	0.0012 J	0.005	0.1	No	NA	No
CCR-AP-6	Molybdenum, Total	mg/L	2024-11-07	0.0012 J	0.005	0.1	No	NA	No
CCR-AP-7R	Molybdenum, Total	mg/L	2024-11-07	0.005 U	0.005	0.1	No	NA	No
CCR-AP-1R	Radium-226 & 228	pCi/L	2024-11-06	2.47	3.13	5	No	NA	No
CCR-AP-2R	Radium-226 & 228	pCi/L	2024-11-05	0.639 UJ	3.13	5	No	NA	No
CCR-AP-3R	Radium-226 & 228	pCi/L	2024-11-05	1.62	3.13	5	No	NA	No
CCR-AP-4R	Radium-226 & 228	pCi/L	2024-11-06	0.0917 U	3.13	5	No	NA	No
CCR-AP-5R	Radium-226 & 228	pCi/L	2024-11-05	0.548 J	3.13	5	No	NA	No
CCR-AP-6	Radium-226 & 228	pCi/L	2024-11-07	0.517 U	3.13	5	No	NA	No
CCR-AP-7R	Radium-226 & 228	pCi/L	2024-11-07	0.397 U	3.13	5	No	NA	No
CCR-AP-1R	Selenium, Total	mg/L	2024-11-06	0.0025 J	0.005	0.05	No	NA	No
CCR-AP-2R	Selenium, Total	mg/L	2024-11-05	0.005 U	0.005	0.05	No	NA	No
CCR-AP-3R	Selenium, Total	mg/L	2024-11-05	0.0017 J	0.005	0.05	No	NA	No
CCR-AP-4R	Selenium, Total	mg/L	2024-11-06	0.002 J	0.005	0.05	No	NA	No
CCR-AP-5R	Selenium, Total	mg/L	2024-11-05	0.005 U	0.005	0.05	No	NA	No
CCR-AP-6	Selenium, Total	mg/L	2024-11-07	0.003 J	0.005	0.05	No	NA	No
CCR-AP-7R	Selenium, Total	mg/L	2024-11-07	0.0029 J	0.005	0.05	No	NA	No
CCR-AP-1R	Thallium, Total	mg/L	2024-11-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-2R	Thallium, Total	mg/L	2024-11-05	0.001 U	0.001	0.002	No	NA	No
CCR-AP-3R	Thallium, Total	mg/L	2024-11-05	0.001 U	0.001	0.002	No	NA	No
CCR-AP-4R	Thallium, Total	mg/L	2024-11-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-5R	Thallium, Total	mg/L	2024-11-05	0.00051 J	0.001	0.002	No	NA	No
CCR-AP-6	Thallium, Total	mg/L	2024-11-07	0.001 U	0.001	0.002	No	NA	No
CCR-AP-7R	Thallium, Total	mg/L	2024-11-07	0.001 U	0.001	0.002	No	NA	No

Assessment Monitoring Trend Analysis for Lithium, Total



--- GWPS
 ... LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

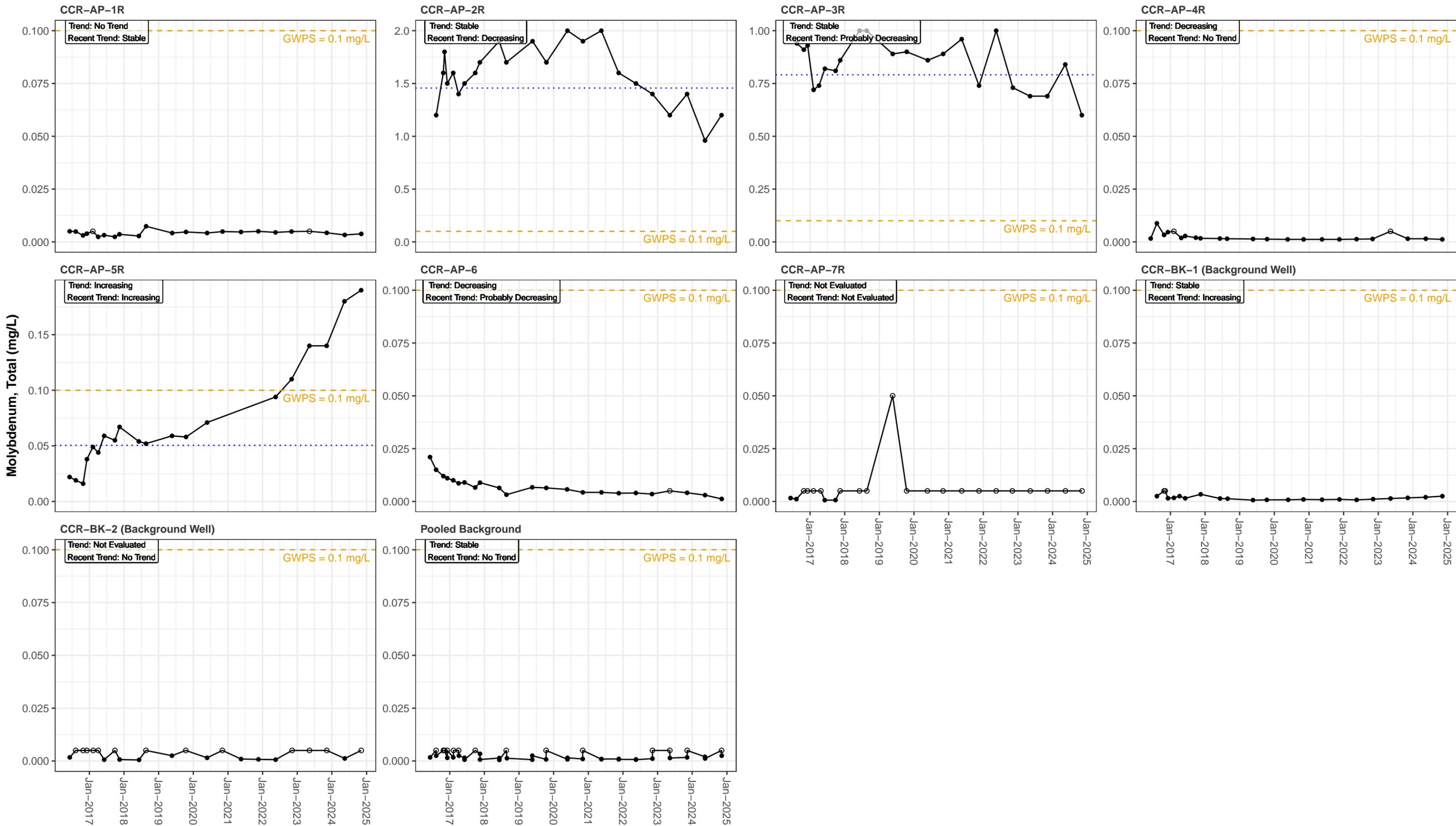
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. When the LCL > GWPS, a statistically significant exceedance is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Datasets with more than 50% non-detect results do not meet minimum requirements for trend analysis and datasets were not evaluated.

Assessment Monitoring Trend Analysis for Molybdenum, Total



— GWPS ··· LCL Detection Status: ● Detect ○ Non-Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSI and UTL). LCL = lower confidence limit. When the LCL > GWPS, a statistically significant exceedance is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Datasets with more than 50% non-detect results do not meet minimum requirements for trend analysis and datasets were not evaluated.



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TECHNICAL MEMORANDUM

September 10, 2025
File No. 0129420-027

TO: Southern Indiana Gas and Electric Company

FROM: Haley & Aldrich, Inc.
Cassidy Sutherland, P.G., Senior Project Manager, Geologist
Steven F. Putrich, P.E., Project Principal

SUBJECT: Statistical Evaluation of the May 2025 Semi-Annual Groundwater
Assessment Monitoring Data
Southern Indiana Gas and Electric Company
Ash Pond
A.B. Brown Generating Station; Posey County, Indiana

Pursuant to Title 40 Code of Federal Regulations (40 CFR) § 257.93 and § 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the May 2025 semi-annual assessment monitoring event for the A.B. Brown Generating Station Ash Pond. Haley & Aldrich, Inc. (Haley & Aldrich) completed this statistical evaluation to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at statistically significant levels (SSL) greater than the Groundwater Protection Standards (GWPS), consistent with the requirements in 40 CFR § 257.95.

Methods used during this statistical analysis are described in Haley & Aldrich's 2017 *Statistical Data Analysis Plan for the A.B Brown Generating Station Ash Pond*. A summary of how applicable performance standards described in 40 CFR § 257.93 (g) were achieved include:

- 40 CFR § 257.93 (g) (1) – Data set distribution was evaluated using basic summary statistics, graphical methods including probability plots, and the Shapiro-Wilk Test for Normality. Data sets were also evaluated for outliers using box plots and either Dixon's Q Test for Outliers or Rosner's Outlier Test depending on sample size. Outlier identification and data set distribution groups are summarized in Attachment A. For background limit calculations, parametric methods were used for normally distributed data sets and non-parametric methods were used for non-normally distributed data sets.
- 40 CFR § 257.93 (g) (2) – Not applicable
- 40 CFR § 257.93 (g) (3) – Not applicable

- 40 CFR § 257.93 (g) (4) – Levels of confidence and additional supporting information for the use of tolerance intervals and prediction limits are included in Attachment A.
- 40 CFR § 257.93 (g) (5) – Non-detect values were accounted for by simple substitution, where the detection limit replaced the non-detect result. Non-detect values are identified and summarized in Attachment A.
- 40 CFR § 257.93 (g) (6) – Time series plots for groundwater monitoring wells included in this evaluation were reviewed to identify potential seasonal variability. No additional statistics to account for seasonality or spatial variability were necessary. Temporal trends were evaluated using the non-parametric Mann-Kendall Trend Test and Theil-Sen Estimator.

Data from the groundwater sampling event for the downgradient monitoring wells (CCR-AP-1R through CCR-AP-5R, CCR-AP-6, and CCR-AP-7R) were compared to the GWPS established from the background dataset for the upgradient monitoring wells (CCR-BK-1 and CCR-BK-2) for detected Appendix IV constituents. The GWPS for each of the Appendix IV constituents has been set equal to the highest value among the maximum contaminant level (MCL), regional screening level (RSL), or background threshold value (BTV). The results of the assessment monitoring statistical evaluation are discussed below and provided in Attachment A.

Development of Groundwater Protection Standards

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR §257.93(f) (1-4)). Haley & Aldrich certified the tolerance limit (TL) as the statistical method used for developing BTV on January 14, 2019. As noted above, the GWPS for each of the Appendix IV constituents have been set equal to the highest value of the MCL, RSL, or BTV (TL). The most recent groundwater sampling result from each compliance well was compared to the GWPS to determine if additional statistical testing is warranted.

STATISTICAL EVALUATION

BTVs are periodically updated per the document *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009* (Unified Guidance). Prior to calculating BTVs, data were evaluated for outlier results, data distribution, and spatial and temporal variability. Potential outlier sample results that would warrant removal from the data set based on likely error in sampling or measurement were identified through statistical outlier using the outliers (version 0.15) R programming package and either the Dixon's or Rosner's Test for Outliers. Potential outliers were further evaluated by visual inspection of box plots and probability plots, and field forms and analytical laboratory reports were reviewed as necessary. No sample data were identified as outliers that warranted removal from the dataset.

Background data distributions were assessed using the stats (version 4.3.3) R programming package and either the Shapiro-Wilk or Shapiro-Francia Test for Normality. Data distributions were further evaluated by visual inspection of probability and distribution plots. Data distributions inform appropriate BTV calculation methods.

Background and downgradient data sets were evaluated for spatial and temporal variability by visual inspection of box plots and time series plots and using the Mann-Kendall Trend Tests (Kendall R programming package, version 2.2.1) and Theil-Sen Estimator (trend R programming package, version 1.1.6). Spatial and temporal variability in background data sets inform appropriate BTV calculation methods.

Note that the CCR unit is in assessment monitoring, so Appendix III (detection monitoring) constituents were not evaluated.

Interwell Background Evaluation

An interwell statistical evaluation was used to determine the TL and identify potential SSLs for detected Appendix IV constituents (Table 1). The interwell evaluation compares the most recent value from downgradient compliance wells to a background dataset composed of pooled upgradient well data. TLs were calculated from the pooled background well dataset utilizing R programming language and the EnvStats (version 2.8.1) and tolerance (version 2.0.0) packages. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used. Parametric TLs utilize normally distributed data or data normalized via a transformation of the background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

GWPS Comparison and LCL Calculations

A lower confidence limit (LCL) was calculated for any Appendix IV constituent measured in a downgradient well during the May 2025 sampling event at a concentration greater than the GWPS. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error. An SSL is indicated when the downgradient well/constituent-specific LCL is greater than the GWPS.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the May 2025 assessment monitoring event were compared to their respective GWPS (Attachment A). LCLs were calculated where constituents were detected at concentrations greater than a GWPS. An SSL is indicated when the LCL is greater than the GWPS. SSLs are summarized in the table below. Based on previous compliance sampling events and statistical evaluations, interwell comparisons were used for downgradient wells and constituents. Based on this statistical evaluation, lithium and molybdenum remain as the only Appendix IV constituent SSLs downgradient of the Ash Pond. This

information is provided for Southern Indiana Gas and Electric Company’s records. Because no new constituents were identified as SSLs, additional notification pertaining to the statistical analysis of the May 2025 groundwater analytical results is not required at this time.

Location	Trend	Constituent	Newly Identified SSLs	Concentration (mg/L)
CCR-AP-3R	Stable	Lithium	No	0.053
CCR-AP-2R	Stable	Molybdenum	No	0.600
CCR-AP-3R	Stable	Molybdenum	No	0.710
CCR-AP-5R	Increasing	Molybdenum	Yes	0.200
Notes: <i>mg/L = milligrams per liter</i>				

TREND SUMMARY

Mann-Kendall trend analyses were performed on data sets from the downgradient wells of sufficient sample size as described above. Results of the trend analysis are summarized in Table 2. Trends indicated for constituents identified as SSLs are summarized below:

- Molybdenum was determined to be stable at monitoring well location CCR-AP-2R, however a decreasing trend was identified in recent data (samples collected between May 2021 and May 2025).
- Molybdenum was determined to be stable at monitoring well location CCR-AP-3R.
- Molybdenum was determined to be increasing at monitoring well location CCR-AP-5R.
- Lithium was determined to be stable at monitoring well location CCR-AP-3R, however no trend was identified in recent data (samples collected between May 2021 and May 2025).

Enclosure:

Table 2 – Trend Summary

Attachment A – Assessment Monitoring Statistical Analysis Summary

https://haleyaldrich.sharepoint.com/sites/VectrenCorporation/Shared Documents/0129420.AB Brown/Deliverables/0_Statistical Evaluation/Ash Pond/2025 May/SSL Notification Memo/2025-0908_HAI_ABB_AP_Statistical Evaluation Summary_D.docx

TABLE 2
Trend Summary

Table 2. Trend Summary

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-1R	Barium, Total	mg/L	Increasing	Increasing	24	24	0.081	0.00498	8	8	0.081	0.00906
CCR-AP-5R	Barium, Total	mg/L	Increasing	Decreasing	21	21	0.021	0.000288	8	8	0.021	-0.0011
CCR-BK-1	Barium, Total	mg/L	Increasing	No Trend	24	24	0.12	0.00264	8	8	0.12	NA
CCR-AP-5R	Molybdenum, Total	mg/L	Increasing	Increasing	21	21	0.2	0.0174	8	8	0.2	0.0323
CCR-AP-5R	Radium-226 & 228	pCi/L	Increasing	No Trend	20	13	0.974	0.0554	8	6	0.974	NA
CCR-BK-1	Chromium, Total	mg/L	No Trend	Increasing	23	15	0.0076	NA	8	4	0.0029	0.000552
CCR-BK-1	Cobalt, Total	mg/L	No Trend	Increasing	23	17	0.0028	NA	8	4	0.00072	4.71e-05
CCR-BK-1	Molybdenum, Total	mg/L	Stable	Increasing	23	21	0.0034	NA	8	8	0.0025	0.000588
CCR-AP-1R	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.001	NA	8	1	0.001	NA
CCR-AP-2R	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.01	NA	8	0	0.001	NA
CCR-AP-3R	Antimony, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	0.01	NA	8	0	0.001	NA
CCR-AP-4R	Antimony, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0.001	NA	8	0	0.001	NA
CCR-AP-5R	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	20	1	0.01	NA	8	1	0.01	NA
CCR-AP-6	Antimony, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.01	NA	8	0	0.001	NA
CCR-AP-7R	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.01	NA	8	0	0.001	NA
CCR-BK-1	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.001	NA	8	0	0.001	NA
CCR-BK-2	Antimony, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	2	0.001	NA	8	1	0.001	NA
CCR-AP-1R	Arsenic, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	13	0.0052	NA	8	2	0.0025	NA
CCR-AP-2R	Arsenic, Total	mg/L	No Trend	No Trend	23	15	0.005	NA	8	6	0.0025	NA
CCR-AP-3R	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	7	0.005	NA	8	2	0.0025	NA
CCR-AP-4R	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	9	0.0025	NA	8	2	0.0025	NA
CCR-AP-5R	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	5	0.005	NA	8	2	0.005	NA
CCR-AP-6	Arsenic, Total	mg/L	Decreasing	No Trend	23	21	0.0053	-0.000314	8	7	0.0025	NA
CCR-AP-7R	Arsenic, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	15	0.005	NA	8	3	0.0025	NA
CCR-BK-1	Arsenic, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	13	0.0025	NA	8	2	0.0025	NA
CCR-BK-2	Arsenic, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	9	0.0035	NA	8	2	0.0027	NA
CCR-AP-2R	Barium, Total	mg/L	No Trend	Stable	24	24	0.063	NA	8	8	0.063	NA
CCR-AP-3R	Barium, Total	mg/L	No Trend	Stable	23	23	0.16	NA	8	8	0.032	NA
CCR-AP-4R	Barium, Total	mg/L	Decreasing	Probably Decreasing	24	24	0.12	-0.00425	8	8	0.083	NA
CCR-AP-6	Barium, Total	mg/L	Decreasing	Stable	24	23	0.05	-0.00136	8	8	0.029	NA
CCR-AP-7R	Barium, Total	mg/L	Decreasing	Stable	24	24	0.063	-0.00201	8	8	0.037	NA
CCR-BK-2	Barium, Total	mg/L	Stable	Stable	24	24	0.15	NA	8	8	0.049	NA
CCR-AP-1R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	3	0.0005	NA	8	0	0.0005	NA
CCR-AP-2R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	4	0.005	NA	8	0	0.0005	NA
CCR-AP-3R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	0.005	NA	8	0	0.0005	NA
CCR-AP-4R	Beryllium, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0.0005	NA	8	0	0.0005	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-5R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	20	2	0.005	NA	8	0	0.005	NA
CCR-AP-6	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	3	0.00051	NA	8	0	0.0005	NA
CCR-AP-7R	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.0005	NA	8	0	0.0005	NA
CCR-BK-1	Beryllium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0005	NA	8	0	0.0005	NA
CCR-BK-2	Beryllium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.0005	NA	8	1	0.0005	NA
CCR-AP-1R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	5	0.0005	NA	8	1	0.0005	NA
CCR-AP-2R	Cadmium, Total	mg/L	No Trend	Stable	24	17	0.005	NA	8	5	0.0005	NA
CCR-AP-3R	Cadmium, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	13	0.005	NA	8	3	0.0005	NA
CCR-AP-4R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	2	0.0005	NA	8	0	0.0005	NA
CCR-AP-5R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	No Trend	21	6	0.005	NA	8	4	0.005	NA
CCR-AP-6	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	3	0.005	NA	8	1	0.0005	NA
CCR-AP-7R	Cadmium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	7	0.005	NA	8	0	0.0005	NA
CCR-BK-1	Cadmium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	24	1	0.0005	NA	8	1	0.0005	NA
CCR-BK-2	Cadmium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	24	1	0.0005	NA	8	1	0.0005	NA
CCR-AP-1R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	2	0.02	NA	8	0	0.0025	NA
CCR-AP-2R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	3	0.01	NA	8	0	0.0025	NA
CCR-AP-3R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.01	NA	8	0	0.0025	NA
CCR-AP-4R	Chromium, Total	mg/L	Stable	Stable	23	20	0.0038	NA	8	6	0.0028	NA
CCR-AP-5R	Chromium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	21	1	0.01	NA	8	0	0.01	NA
CCR-AP-6	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.01	NA	8	1	0.0049	NA
CCR-AP-7R	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	10	0.01	NA	8	1	0.0025	NA
CCR-BK-2	Chromium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	6	0.0087	NA	8	2	0.0047	NA
CCR-AP-1R	Cobalt, Total	mg/L	Decreasing	Stable	24	19	0.011	-0.000135	8	5	0.00074	NA
CCR-AP-2R	Cobalt, Total	mg/L	Stable	Probably Decreasing	24	24	0.0079	NA	8	8	0.0029	NA
CCR-AP-3R	Cobalt, Total	mg/L	No Trend	Stable	22	17	0.0025	NA	8	8	0.00083	NA
CCR-AP-4R	Cobalt, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	9	0.0033	NA	8	0	0.0005	NA
CCR-AP-5R	Cobalt, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	9	0.0025	NA	8	3	0.0025	NA
CCR-AP-6	Cobalt, Total	mg/L	Decreasing	Stable	24	24	0.0068	-0.000196	8	8	0.0036	NA
CCR-AP-7R	Cobalt, Total	mg/L	Decreasing	Stable	24	21	0.004	-0.000147	8	6	0.00058	NA
CCR-BK-2	Cobalt, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	0.0062	NA	8	2	0.0015	NA
CCR-AP-1R	Fluoride	mg/L	No Trend	Decreasing	24	21	2.5	NA	8	8	0.64	-0.0752
CCR-AP-2R	Fluoride	mg/L	Stable	No Trend	24	21	1.1	NA	8	7	0.52	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-3R	Fluoride	mg/L	No Trend	No Trend	23	23	1.7	NA	8	8	1.6	NA
CCR-AP-4R	Fluoride	mg/L	Probably Decreasing	Stable	24	24	0.58	NA	8	8	0.58	NA
CCR-AP-5R	Fluoride	mg/L	No Trend	Stable	21	19	0.7	NA	8	8	0.7	NA
CCR-AP-6	Fluoride	mg/L	Stable	Probably Decreasing	24	21	0.44	NA	8	8	0.31	NA
CCR-AP-7R	Fluoride	mg/L	No Trend	Decreasing	22	18	0.55	NA	8	8	0.3	-0.0453
CCR-BK-1	Fluoride	mg/L	Decreasing	Stable	23	21	0.38	-0.0174	8	7	0.36	NA
CCR-BK-2	Fluoride	mg/L	Stable	Stable	22	19	0.34	NA	8	6	0.34	NA
CCR-AP-1R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	5	0.0013	NA	8	0	0.0005	NA
CCR-AP-2R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	9	0.0052	NA	8	2	0.00061	NA
CCR-AP-3R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.005	NA	8	1	0.00072	NA
CCR-AP-4R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	7	0.00066	NA	8	2	0.00066	NA
CCR-AP-5R	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	21	2	0.005	NA	8	0	0.005	NA
CCR-AP-6	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	0.005	NA	8	2	0.0018	NA
CCR-AP-7R	Lead, Total	mg/L	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	15	0.005	NA	8	2	0.0006	NA
CCR-BK-1	Lead, Total	mg/L	Stable	Probably Increasing	24	18	0.0011	NA	8	4	0.00068	NA
CCR-BK-2	Lead, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	8	0.011	NA	8	2	0.0024	NA
CCR-AP-1R	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	0.066	NA	8	3	0.004	NA
CCR-AP-2R	Lithium, Total	mg/L	Decreasing	Stable	24	24	0.067	-0.00406	8	8	0.03	NA
CCR-AP-3R	Lithium, Total	mg/L	Stable	Stable	23	23	0.1	NA	8	8	0.09	NA
CCR-AP-4R	Lithium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	24	1	0.025	NA	8	1	0.004	NA
CCR-AP-5R	Lithium, Total	mg/L	Stable	Stable	21	18	0.025	NA	8	7	0.025	NA
CCR-AP-6	Lithium, Total	mg/L	Decreasing	Decreasing	24	23	0.043	-0.00342	8	8	0.025	-0.00483
CCR-AP-7R	Lithium, Total	mg/L	Decreasing	Decreasing	24	23	0.034	-0.000974	8	8	0.024	-0.00377
CCR-BK-1	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Probably Increasing	24	9	0.025	NA	8	6	0.016	NA
CCR-BK-2	Lithium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	No Trend	24	6	0.025	NA	8	5	0.0043	NA
CCR-AP-1R	Mercury, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0001	NA	8	0	0.0001	NA
CCR-AP-2R	Mercury, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0001	NA	8	0	0.0001	NA
CCR-AP-3R	Mercury, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	9	0.00053	NA	8	1	0.00053	NA
CCR-AP-4R	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0.0001	NA	8	0	0.0001	NA
CCR-AP-5R	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	20	0	0.0001	NA	8	0	0.0001	NA
CCR-AP-6	Mercury, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0001	NA	8	0	0.0001	NA
CCR-AP-7R	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0.0001	NA	8	0	0.0001	NA
CCR-BK-1	Mercury, Total	mg/L	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0.0001	NA	8	0	0.0001	NA
CCR-BK-2	Mercury, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.0002	NA	8	0	0.0001	NA
CCR-AP-1R	Molybdenum, Total	mg/L	No Trend	Probably Decreasing	24	22	0.0074	NA	8	7	0.005	NA
CCR-AP-2R	Molybdenum, Total	mg/L	Stable	Decreasing	24	24	2	NA	8	8	1.6	-0.246
CCR-AP-3R	Molybdenum, Total	mg/L	Probably Decreasing	Stable	23	23	1	NA	8	8	1	NA
CCR-AP-4R	Molybdenum, Total	mg/L	Decreasing	No Trend	24	22	0.0088	-0.000134	8	7	0.0025	NA
CCR-AP-6	Molybdenum, Total	mg/L	Decreasing	Stable	24	22	0.021	-0.00111	8	6	0.0041	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

Location	Chemical	Units	Identified Trends		Trend Analysis on All Available Data				Trend Analysis on Recent Data			
			Trend (All Data)	Trend (Recent Data)	Results, n	Detected Results, n	Max Concentration	Sen Slope (units per year)	*Results, n	*Detected Results, n	*Max Concentration	*Sen Slope (units per year)
CCR-AP-7R	Molybdenum, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	4	0.025	NA	8	0	0.0025	NA
CCR-BK-2	Molybdenum, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	0.0025	NA	8	3	0.0025	NA
CCR-AP-1R	Radium-226 & 228	pCi/L	No Trend	No Trend	23	15	2.47	NA	8	5	2.47	NA
CCR-AP-2R	Radium-226 & 228	pCi/L	Probably Decreasing	Not Evaluated - Majority of data (>50%) non-detect	21	15	1.55	NA	8	3	1.55	NA
CCR-AP-3R	Radium-226 & 228	pCi/L	No Trend	No Trend	22	18	1.62	NA	8	7	1.62	NA
CCR-AP-4R	Radium-226 & 228	pCi/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	7.93	NA	8	1	0.754	NA
CCR-AP-6	Radium-226 & 228	pCi/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	5	4.77	NA	8	2	0.72	NA
CCR-AP-7R	Radium-226 & 228	pCi/L	No Trend	Stable	21	11	1.28	NA	8	5	1.28	NA
CCR-BK-1	Radium-226 & 228	pCi/L	No Trend	Stable	21	11	2.46	NA	8	4	2.46	NA
CCR-BK-2	Radium-226 & 228	pCi/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	5	3.13	NA	8	2	1.37	NA
CCR-AP-1R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	2	0.0025	NA	8	1	0.0025	NA
CCR-AP-2R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	4	0.025	NA	8	0	0.0025	NA
CCR-AP-3R	Selenium, Total	mg/L	Stable	Stable	23	20	0.04	NA	8	7	0.016	NA
CCR-AP-4R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	5	0.0025	NA	8	1	0.0025	NA
CCR-AP-5R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	21	2	0.025	NA	8	1	0.025	NA
CCR-AP-6	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	2	0.025	NA	8	1	0.003	NA
CCR-AP-7R	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	3	0.025	NA	8	1	0.0029	NA
CCR-BK-1	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	4	0.0027	NA	8	1	0.0027	NA
CCR-BK-2	Selenium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	3	0.0025	NA	8	1	0.0025	NA
CCR-AP-1R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	4	0.00054	NA	8	1	0.00054	NA
CCR-AP-2R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.005	NA	8	0	0.0005	NA
CCR-AP-3R	Thallium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	0.005	NA	8	0	0.0005	NA
CCR-AP-4R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.0005	NA	8	1	0.0005	NA
CCR-AP-5R	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	3	0.005	NA	8	2	0.005	NA
CCR-AP-6	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	0.005	NA	8	1	0.0005	NA
CCR-AP-7R	Thallium, Total	mg/L	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.005	NA	8	0	0.0005	NA
CCR-BK-1	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.0005	NA	8	0	0.0005	NA
CCR-BK-2	Thallium, Total	mg/L	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	4	0.00076	NA	8	2	0.00076	NA

Abbreviations: CF = confidence factor; CV = coefficient of variation; mg/L = milligrams per liter; pCi/L = picocuries per liter.

Notes: *Recent data defined as the 8 most recent data points. MK = Mann Kendall Trend Test. Secular Trend Classification based on Aziz (2003) guidance and MK Results. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Additional information about trend analysis provided in Attachment A.

ATTACHMENT A
Assessment Monitoring Statistical Analysis Summary

Table A-1. Descriptive Statistics

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
CCR-AP-1R	Antimony, Total	mg/L	23	22	96	0.00200	0.0007	0.00194	0.002	0.00027	7.3e-08	0.002 - 0.002	2016-06-07 to 2025-05-06
CCR-AP-2R	Antimony, Total	mg/L	23	22	96	0.02000	0.00011	0.00348	0.002	0.0052	2.7e-05	0.002 - 0.02	2016-08-11 to 2025-05-06
CCR-AP-3R	Antimony, Total	mg/L	22	22	100	0.02000	0.00022	0.00437	0.002	0.0064	4.1e-05	0.00022 - 0.02	2016-08-15 to 2025-05-06
CCR-AP-4R	Antimony, Total	mg/L	23	23	100	0.00200	0.002	0.002	0.002	0	0	0.002 - 0.002	2016-06-07 to 2025-05-06
CCR-AP-5R	Antimony, Total	mg/L	20	19	95	0.02000	0.00094	0.00465	0.002	0.0066	4.4e-05	0.002 - 0.02	2016-06-06 to 2025-05-06
CCR-AP-6	Antimony, Total	mg/L	23	22	96	0.02000	0.00068	0.00273	0.002	0.0038	1.4e-05	0.002 - 0.02	2016-06-07 to 2025-05-06
CCR-AP-7R	Antimony, Total	mg/L	23	21	91	0.02000	0.0004	0.00265	0.002	0.0038	1.4e-05	0.002 - 0.02	2016-06-09 to 2025-05-06
CCR-BK-1	Antimony, Total	mg/L	23	21	91	0.00200	5.6e-05	0.00185	0.002	0.00051	2.6e-07	0.002 - 0.002	2016-08-11 to 2025-05-07
CCR-BK-2	Antimony, Total	mg/L	23	21	91	0.00200	0.00048	0.00187	0.002	0.00042	1.7e-07	0.002 - 0.002	2016-06-08 to 2025-05-07
Pooled Background	Antimony, Total	mg/L	46	42	91	0.00200	5.6e-05	0.00186	0.002	0.00046	2.1e-07	0.002 - 0.002	2016-06-08 to 2025-05-07
CCR-AP-1R	Arsenic, Total	mg/L	23	10	43	0.00520	0.00031	0.00181	0.001	0.002	3.9e-06	0.001 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-2R	Arsenic, Total	mg/L	23	8	35	0.01000	0.00034	0.00201	0.001	0.0028	7.9e-06	0.001 - 0.01	2016-08-11 to 2025-05-06
CCR-AP-3R	Arsenic, Total	mg/L	22	15	68	0.01000	0.00029	0.00261	0.001	0.0034	1.1e-05	0.001 - 0.01	2016-08-15 to 2025-05-06
CCR-AP-4R	Arsenic, Total	mg/L	23	14	61	0.00500	0.00026	0.00162	0.001	0.0018	3.4e-06	0.001 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-5R	Arsenic, Total	mg/L	21	16	76	0.01000	0.00016	0.00292	0.001	0.0034	1.2e-05	0.001 - 0.01	2016-06-06 to 2025-05-06
CCR-AP-6	Arsenic, Total	mg/L	23	2	9	0.01000	0.00046	0.00264	0.002	0.0022	5e-06	0.005 - 0.01	2016-06-07 to 2025-05-06
CCR-AP-7R	Arsenic, Total	mg/L	22	7	32	0.01000	0.00046	0.00231	0.000935	0.0025	6.2e-06	0.001 - 0.01	2016-06-09 to 2025-05-06
CCR-BK-1	Arsenic, Total	mg/L	23	10	43	0.00500	0.00021	0.00145	0.001	0.0015	2.2e-06	0.001 - 0.005	2016-08-11 to 2025-05-07
CCR-BK-2	Arsenic, Total	mg/L	24	15	62	0.00500	0.00031	0.00166	0.001	0.0015	2.2e-06	0.001 - 0.005	2016-06-08 to 2025-05-07
Pooled Background	Arsenic, Total	mg/L	47	25	53	0.00500	0.00021	0.00156	0.001	0.0015	2.2e-06	0.001 - 0.005	2016-06-08 to 2025-05-07
CCR-AP-1R	Barium, Total	mg/L	24	0	0	0.08100	0.012	0.0336	0.0265	0.019	0.00037	NA	2016-06-07 to 2025-05-06
CCR-AP-2R	Barium, Total	mg/L	24	0	0	0.06300	0.021	0.0406	0.043	0.01	0.0001	NA	2016-08-11 to 2025-05-06
CCR-AP-3R	Barium, Total	mg/L	23	0	0	0.16000	0.012	0.0237	0.017	0.03	0.0009	NA	2016-08-15 to 2025-05-06
CCR-AP-4R	Barium, Total	mg/L	24	0	0	0.12000	0.042	0.0718	0.073	0.025	0.00063	NA	2016-06-07 to 2025-05-06
CCR-AP-5R	Barium, Total	mg/L	21	0	0	0.02100	0.012	0.0172	0.017	0.0023	5.5e-06	NA	2016-06-06 to 2025-05-06
CCR-AP-6	Barium, Total	mg/L	24	1	4	0.10000	0.011	0.0215	0.0165	0.018	0.00033	0.1 - 0.1	2016-06-07 to 2025-05-06
CCR-AP-7R	Barium, Total	mg/L	24	0	0	0.06300	0.017	0.0318	0.03	0.011	0.00011	NA	2016-06-09 to 2025-05-06
CCR-BK-1	Barium, Total	mg/L	24	0	0	0.12000	0.027	0.0487	0.038	0.022	0.0005	NA	2016-08-11 to 2025-05-07
CCR-BK-2	Barium, Total	mg/L	24	0	0	0.15000	0.032	0.0418	0.0355	0.024	0.00056	NA	2016-06-08 to 2025-05-07
Pooled Background	Barium, Total	mg/L	48	0	0	0.15000	0.027	0.0452	0.037	0.023	0.00053	NA	2016-06-08 to 2025-05-07
CCR-AP-1R	Beryllium, Total	mg/L	23	20	87	0.00100	6.5e-05	0.000889	0.001	0.00029	8.6e-08	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-2R	Beryllium, Total	mg/L	23	19	83	0.01000	0.00013	0.00164	0.001	0.0027	7.1e-06	0.001 - 0.01	2016-08-11 to 2025-05-06
CCR-AP-3R	Beryllium, Total	mg/L	22	20	91	0.01000	0.00017	0.00174	0.001	0.0027	7.2e-06	0.001 - 0.01	2016-08-15 to 2025-05-06
CCR-AP-4R	Beryllium, Total	mg/L	23	23	100	0.00100	0.001	0.001	0.001	0	0	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-5R	Beryllium, Total	mg/L	20	18	90	0.01000	5.2e-05	0.00181	0.001	0.0028	7.9e-06	0.001 - 0.01	2016-06-06 to 2025-05-06
CCR-AP-6	Beryllium, Total	mg/L	23	20	87	0.00100	0.0001	0.000914	0.001	0.00024	5.5e-08	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-7R	Beryllium, Total	mg/L	23	21	91	0.00100	0.00013	0.000929	0.001	0.00024	5.5e-08	0.001 - 0.001	2016-06-09 to 2025-05-06
CCR-BK-1	Beryllium, Total	mg/L	23	22	96	0.00100	0.00012	0.000962	0.001	0.00018	3.4e-08	0.001 - 0.001	2016-08-11 to 2025-05-07
CCR-BK-2	Beryllium, Total	mg/L	23	20	87	0.00100	0.00018	0.000909	0.001	0.00024	5.9e-08	0.001 - 0.001	2016-06-08 to 2025-05-07
Pooled Background	Beryllium, Total	mg/L	46	42	91	0.00100	0.00012	0.000935	0.001	0.00021	4.6e-08	0.001 - 0.001	2016-06-08 to 2025-05-07
CCR-AP-1R	Cadmium, Total	mg/L	24	19	79	0.00100	0.00011	0.00083	0.001	0.00034	1.2e-07	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-2R	Cadmium, Total	mg/L	24	7	29	0.01000	0.00019	0.00133	0.000445	0.0027	7.2e-06	0.001 - 0.01	2016-08-11 to 2025-05-06
CCR-AP-3R	Cadmium, Total	mg/L	23	10	43	0.01000	0.00013	0.00173	0.0003	0.0033	1.1e-05	0.001 - 0.01	2016-08-15 to 2025-05-06
CCR-AP-4R	Cadmium, Total	mg/L	24	22	92	0.00100	8.4e-05	0.000928	0.001	0.00025	6e-08	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-5R	Cadmium, Total	mg/L	21	15	71	0.01000	0.00012	0.00206	0.001	0.0033	1.1e-05	0.001 - 0.01	2016-06-06 to 2025-05-06
CCR-AP-6	Cadmium, Total	mg/L	24	21	88	0.01000	0.0001	0.00127	0.001	0.0019	3.5e-06	0.001 - 0.01	2016-06-07 to 2025-05-06
CCR-AP-7R	Cadmium, Total	mg/L	24	17	71	0.01000	0.00011	0.00114	0.001	0.0019	3.7e-06	0.001 - 0.01	2016-06-09 to 2025-05-06
CCR-BK-1	Cadmium, Total	mg/L	24	23	96	0.00100	9e-05	0.000962	0.001	0.00019	3.5e-08	0.001 - 0.001	2016-08-11 to 2025-05-07
CCR-BK-2	Cadmium, Total	mg/L	24	23	96	0.00100	0.00016	0.000968	0.001	0.00016	2.4e-08	0.001 - 0.001	2016-06-08 to 2025-05-07
Pooled Background	Cadmium, Total	mg/L	48	46	96	0.00100	9e-05	0.000965	0.001	0.00017	2.9e-08	0.001 - 0.001	2016-06-08 to 2025-05-07
CCR-AP-1R	Chromium, Total	mg/L	24	22	92	0.02000	0.0011	0.00335	0.002	0.0038	1.4e-05	0.002 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-2R	Chromium, Total	mg/L	24	21	88	0.02000	0.00071	0.00397	0.002	0.0051	2.6e-05	0.002 - 0.02	2016-08-11 to 2025-05-06
CCR-AP-3R	Chromium, Total	mg/L	23	21	91	0.02000	0.00051	0.00476	0.002	0.0062	3.8e-05	0.002 - 0.02	2016-08-15 to 2025-05-06
CCR-AP-4R	Chromium, Total	mg/L	23	3	13	0.00500	0.0015	0.0025	0.0023	0.00085	7.3e-07	0.0025 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-5R	Chromium, Total	mg/L	21	20	95	0.02000	0.00062	0.00522	0.002	0.0063	4e-05	0.002 - 0.02	2016-06-06 to 2025-05-06
CCR-AP-6	Chromium, Total	mg/L	23	18	78	0.02000	0.00048	0.00351	0.002	0.004	1.6e-05	0.002 - 0.02	2016-06-07 to 2025-05-06
CCR-AP-7R	Chromium, Total	mg/L	23	13	57	0.02000	0.00076	0.00345	0.002	0.0039	1.5e-05	0.002 - 0.02	2016-06-09 to 2025-05-06
CCR-BK-1	Chromium, Total	mg/L	23	8	35	0.00760	0.00046	0.00248	0.002	0.0016	2.4e-06	0.002 - 0.005	2016-08-11 to 2025-05-07
CCR-BK-2	Chromium, Total	mg/L	23	17	74	0.00870	0.00076	0.00293	0.002	0.0018	3.4e-06	0.002 - 0.005	2016-06-08 to 2025-05-07
Pooled Background	Chromium, Total	mg/L	46	25	54	0.00870	0.00046	0.0027	0.002	0.0017	2.9e-06	0.002 - 0.005	2016-06-08 to 2025-05-07
CCR-AP-1R	Cobalt, Total	mg/L	24	5	21	0.01100	0.00013	0.00142	0.0005	0.0026	6.5e-06	0.0005 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-2R	Cobalt, Total	mg/L	24	0	0	0.00790	0.00062	0.00265	0.0026	0.0012	1.6e-06	NA	2016-08-11 to 2025-05-06
CCR-AP-3R	Cobalt, Total	mg/L	22	5	23	0.00500	0.00015	0.001	0.0005	0.0014	1.9e-06	0.0005 - 0.005	2016-08-15 to 2025-05-06
CCR-AP-4R	Cobalt, Total	mg/L	24	15	62	0.00330	0.00011	0.000647	0.0005	0.00064	4.1e-07	0.0005 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-5R	Cobalt, Total	mg/L	21	12	57	0.00500	9.8e-05	0.00109	0.0005	0.0017	2.7e-06	0.0005 - 0.005	2016-06-06 to 2025-05-06
CCR-AP-6	Cobalt, Total	mg/L	24	0	0	0.00680	0.00017	0.00184	0.00115	0.0017	2.9e-06	NA	2016-06-07 to 2025-05-06
CCR-AP-7R	Cobalt, Total	mg/L	24	3	12	0.00500	0.00014	0.00118	0.000525	0.0013	1.8e-06	0.0005 - 0.005	2016-06-09 to 2025-05-06
CCR-BK-1	Cobalt, Total	mg/L	23	6	26	0.00280	0.00012	0.000714	0.0005	0.00064	4.1e-07	0.0005 - 0.001	2016-08-11 to 2025-05-07
CCR-BK-2	Cobalt, Total	mg/L	24	14	58	0.00620	9.6e-05	0.000841	0.0005	0.0012	1.5e-06	0.0005 - 0.001	2016-06-08 to 2025-05-07
Pooled Background	Cobalt, Total	mg/L	47	20	43	0.00620	9.6e-05	0.000779	0.0005	0.00097	9.3e-07	0.0005 - 0.001	2016-06-08 to 2025-05-07
CCR-AP-1R	Fluoride	mg/L	24	3	12	5.00000	0.2	0.646	0.49	0.94	0.88	0.5 - 5	2016-06-07 to 2025-05-06
CCR-AP-2R	Fluoride	mg/L	24	3	12	1.10000	0.23	0.498	0.5	0.2	0.041	0.5 - 0.5	2016-08-11 to 2025-05-06
CCR-AP-3R	Fluoride	mg/L	23	0	0	1.70000	0.6	1.1	1	0.31	0.095	NA	2016-08-15 to 2025-05-06
CCR-AP-4R	Fluoride	mg/L	24	0	0	0.58000	0.1	0.38	0.39	0.088	0.0077	NA	2016-06-07 to 2025-05-06
CCR-AP-5R	Fluoride	mg/L	21	2	10	0.70000	0.2	0.361	0.32	0.14	0.019	0.5 - 0.5	2016-06-06 to 2025-05-06
CCR-AP-6	Fluoride	mg/L	24	3	12	0.44000	0.1	0.192					

Location	Constituent	Units	n	n, non-detects	percent of non-detects	max	min	mean	median	standard deviation	variance	reporting limit range	date range
CCR-BK-2	Fluoride	mg/L	22	3	14	0.34000	0.07	0.154	0.145	0.053	0.0028	0.1 - 0.12	2016-08-10 to 2025-05-07
Pooled Background	Fluoride	mg/L	45	5	11	0.38000	0.07	0.224	0.19	0.094	0.0088	0.1 - 0.23	2016-08-10 to 2025-05-07
CCR-AP-1R	Lead, Total	mg/L	24	19	79	0.00130	0.00015	0.000878	0.001	0.00032	1e-07	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-2R	Lead, Total	mg/L	24	15	62	0.01000	8.3e-05	0.00168	0.001	0.0027	7.5e-06	0.001 - 0.01	2016-08-11 to 2025-05-06
CCR-AP-3R	Lead, Total	mg/L	23	18	78	0.01000	0.00013	0.00202	0.001	0.0032	1e-05	0.001 - 0.01	2016-08-15 to 2025-05-06
CCR-AP-4R	Lead, Total	mg/L	24	17	71	0.00100	8.5e-05	0.000774	0.001	0.00037	1.4e-07	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-5R	Lead, Total	mg/L	21	19	90	0.01000	0.00024	0.00181	0.001	0.0027	7.5e-06	0.001 - 0.01	2016-06-06 to 2025-05-06
CCR-AP-6	Lead, Total	mg/L	24	14	58	0.01000	0.00013	0.00152	0.001	0.0021	4.4e-06	0.001 - 0.01	2016-06-07 to 2025-05-06
CCR-AP-7R	Lead, Total	mg/L	23	8	35	0.01000	0.00013	0.00123	0.001	0.002	4.2e-06	0.001 - 0.01	2016-08-10 to 2025-05-06
CCR-BK-1	Lead, Total	mg/L	24	6	25	0.00110	7.9e-05	0.000606	0.000655	0.00037	1.4e-07	0.001 - 0.001	2016-08-11 to 2025-05-07
CCR-BK-2	Lead, Total	mg/L	24	16	67	0.01100	2.8e-05	0.0015	0.001	0.0021	4.5e-06	0.001 - 0.001	2016-06-08 to 2025-05-07
Pooled Background	Lead, Total	mg/L	48	22	46	0.01100	2.8e-05	0.00105	0.001	0.0016	2.5e-06	0.001 - 0.001	2016-06-07 to 2025-05-07
CCR-AP-1R	Lithium, Total	mg/L	24	14	58	0.06600	0.00096	0.0184	0.008	0.02	0.00039	0.005 - 0.05	2016-06-07 to 2025-05-06
CCR-AP-2R	Lithium, Total	mg/L	24	0	0	0.06700	0.011	0.0418	0.034	0.016	0.00024	NA	2016-08-11 to 2025-05-06
CCR-AP-3R	Lithium, Total	mg/L	23	0	0	0.10000	0.053	0.074	0.075	0.012	0.00015	NA	2016-08-15 to 2025-05-06
CCR-AP-4R	Lithium, Total	mg/L	24	23	96	0.05000	0.0011	0.0243	0.008	0.022	0.0005	0.005 - 0.05	2016-06-07 to 2025-05-06
CCR-AP-5R	Lithium, Total	mg/L	21	3	14	0.05000	0.013	0.0215	0.017	0.012	0.00015	0.05 - 0.05	2016-06-06 to 2025-05-06
CCR-AP-6	Lithium, Total	mg/L	24	1	4	0.04300	0.005	0.0292	0.028	0.012	0.00014	0.005 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-7R	Lithium, Total	mg/L	24	1	4	0.05000	0.0099	0.0217	0.021	0.0083	6.9e-05	0.05 - 0.05	2016-06-07 to 2025-05-06
CCR-BK-1	Lithium, Total	mg/L	24	15	62	0.05000	0.0025	0.021	0.0082	0.021	0.00044	0.005 - 0.05	2016-08-11 to 2025-05-07
CCR-BK-2	Lithium, Total	mg/L	24	18	75	0.05000	0.0016	0.0237	0.008	0.023	0.00052	0.005 - 0.05	2016-06-08 to 2025-05-07
Pooled Background	Lithium, Total	mg/L	48	33	69	0.05000	0.0016	0.0224	0.008	0.022	0.00047	0.005 - 0.05	2016-06-08 to 2025-05-07
CCR-AP-1R	Mercury, Total	mg/L	23	22	96	0.00020	8.5e-05	0.000195	0.0002	2.4e-05	5.8e-10	0.0002 - 0.0002	2016-06-07 to 2025-05-06
CCR-AP-2R	Mercury, Total	mg/L	23	22	96	0.00020	8e-05	0.000195	0.0002	2.5e-05	6.3e-10	0.0002 - 0.0002	2016-08-11 to 2025-05-06
CCR-AP-3R	Mercury, Total	mg/L	22	13	59	0.00053	7.1e-05	0.000202	0.0002	0.00012	1.3e-08	0.0002 - 0.0002	2016-08-15 to 2025-05-06
CCR-AP-4R	Mercury, Total	mg/L	23	23	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-06-07 to 2025-05-06
CCR-AP-5R	Mercury, Total	mg/L	20	20	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-06-06 to 2025-05-06
CCR-AP-6	Mercury, Total	mg/L	23	22	96	0.00020	5.5e-05	0.000194	0.0002	3e-05	9.1e-10	0.0002 - 0.0002	2016-06-07 to 2025-05-06
CCR-AP-7R	Mercury, Total	mg/L	23	23	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-06-09 to 2025-05-06
CCR-BK-1	Mercury, Total	mg/L	23	23	100	0.00020	0.0002	0.0002	0.0002	0	0	0.0002 - 0.0002	2016-08-11 to 2025-05-07
CCR-BK-2	Mercury, Total	mg/L	23	21	91	0.00020	0.0001	0.000196	0.0002	2.1e-05	4.3e-10	0.0002 - 0.0002	2016-06-08 to 2025-05-07
Pooled Background	Mercury, Total	mg/L	46	44	96	0.00020	0.0001	0.000198	0.0002	1.5e-05	2.2e-10	0.0002 - 0.0002	2016-06-08 to 2025-05-07
CCR-AP-1R	Molybdenum, Total	mg/L	24	2	8	0.00740	0.0024	0.00417	0.00425	0.0011	1.2e-06	0.005 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-2R	Molybdenum, Total	mg/L	24	0	0	2.00000	0.6	1.54	1.6	0.34	0.11	NA	2016-08-11 to 2025-05-06
CCR-AP-3R	Molybdenum, Total	mg/L	23	0	0	1.00000	0.6	0.836	0.86	0.11	0.013	NA	2016-08-15 to 2025-05-06
CCR-AP-4R	Molybdenum, Total	mg/L	24	2	8	0.00880	0.0012	0.00232	0.0015	0.0018	3.4e-06	0.005 - 0.005	2016-06-09 to 2025-05-06
CCR-AP-5R	Molybdenum, Total	mg/L	21	0	0	0.20000	0.016	0.0818	0.059	0.056	0.0032	NA	2016-06-06 to 2025-05-06
CCR-AP-6	Molybdenum, Total	mg/L	24	2	8	0.02100	0.0012	0.00703	0.00605	0.0044	2e-05	0.005 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-7R	Molybdenum, Total	mg/L	24	20	83	0.05000	0.00062	0.00621	0.005	0.0095	8.9e-05	0.005 - 0.05	2016-06-09 to 2025-05-06
CCR-BK-1	Molybdenum, Total	mg/L	23	2	9	0.00500	0.00063	0.00184	0.0015	0.0012	1.5e-06	0.005 - 0.005	2016-08-11 to 2025-05-07
CCR-BK-2	Molybdenum, Total	mg/L	24	14	58	0.00500	0.00051	0.00338	0.005	0.002	4e-06	0.005 - 0.005	2016-06-08 to 2025-05-07
Pooled Background	Molybdenum, Total	mg/L	47	16	34	0.00500	0.00051	0.00262	0.0017	0.0018	3.3e-06	0.005 - 0.005	2016-06-08 to 2025-05-07
CCR-AP-1R	Radium-226 & 228	pCi/L	23	8	35	2.47000	0.0879	0.746	0.652	0.52	0.27	0.0879 - 1.33	2016-06-07 to 2025-05-06
CCR-AP-2R	Radium-226 & 228	pCi/L	21	6	29	1.55000	0.339	0.773	0.645	0.34	0.11	0.339 - 0.816	2016-08-11 to 2025-05-06
CCR-AP-3R	Radium-226 & 228	pCi/L	22	4	18	1.62000	0.29	0.682	0.569	0.33	0.11	0.29 - 0.471	2016-08-15 to 2025-05-06
CCR-AP-4R	Radium-226 & 228	pCi/L	23	18	78	7.93000	0.0118	0.705	0.382	1.6	2.5	0.0118 - 0.712	2016-06-07 to 2025-05-06
CCR-AP-5R	Radium-226 & 228	pCi/L	20	7	35	0.97400	0.0606	0.482	0.445	0.2	0.04	0.0606 - 0.431	2016-06-06 to 2025-05-06
CCR-AP-6	Radium-226 & 228	pCi/L	21	16	76	4.77000	0.0546	0.505	0.301	1	1	0.0546 - 0.517	2016-06-07 to 2025-05-06
CCR-AP-7R	Radium-226 & 228	pCi/L	21	10	48	1.28000	0.0856	0.497	0.437	0.29	0.087	0.0856 - 0.451	2016-06-09 to 2025-05-06
CCR-BK-1	Radium-226 & 228	pCi/L	21	10	48	2.46000	0.121	0.59	0.482	0.52	0.27	0.121 - 0.959	2016-08-11 to 2025-05-07
CCR-BK-2	Radium-226 & 228	pCi/L	23	18	78	3.13000	-0.0961	0.615	0.217	0.86	0.74	-0.0961 - 2.74	2016-06-08 to 2025-05-07
Pooled Background	Radium-226 & 228	pCi/L	44	28	64	3.13000	-0.0961	0.603	0.362	0.71	0.5	-0.0961 - 2.74	2016-06-08 to 2025-05-07
CCR-AP-1R	Selenium, Total	mg/L	24	22	92	0.00500	0.00049	0.00471	0.005	0.001	1.1e-06	0.005 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-2R	Selenium, Total	mg/L	24	20	83	0.05000	0.0004	0.00802	0.005	0.013	0.00017	0.005 - 0.05	2016-08-11 to 2025-05-06
CCR-AP-3R	Selenium, Total	mg/L	23	3	13	0.05000	0.0017	0.0139	0.0074	0.015	0.00021	0.005 - 0.05	2016-08-15 to 2025-05-06
CCR-AP-4R	Selenium, Total	mg/L	24	19	79	0.00500	0.00051	0.00419	0.005	0.0016	2.7e-06	0.005 - 0.005	2016-06-07 to 2025-05-06
CCR-AP-5R	Selenium, Total	mg/L	21	19	90	0.05000	0.00085	0.011	0.005	0.016	0.00027	0.005 - 0.05	2016-06-06 to 2025-05-06
CCR-AP-6	Selenium, Total	mg/L	24	22	92	0.05000	0.00065	0.00661	0.005	0.0093	8.6e-05	0.005 - 0.05	2016-06-07 to 2025-05-06
CCR-AP-7R	Selenium, Total	mg/L	24	21	88	0.05000	0.0007	0.00644	0.005	0.0094	8.8e-05	0.005 - 0.05	2016-06-09 to 2025-05-06
CCR-BK-1	Selenium, Total	mg/L	24	20	83	0.00500	0.00037	0.00434	0.005	0.0016	2.4e-06	0.005 - 0.005	2016-08-11 to 2025-05-07
CCR-BK-2	Selenium, Total	mg/L	24	21	88	0.00500	0.00047	0.00454	0.005	0.0013	1.7e-06	0.005 - 0.005	2016-06-08 to 2025-05-07
Pooled Background	Selenium, Total	mg/L	48	41	85	0.00500	0.00037	0.00444	0.005	0.0014	2e-06	0.005 - 0.005	2016-06-08 to 2025-05-07
CCR-AP-1R	Thallium, Total	mg/L	23	19	83	0.00100	3.8e-05	0.00086	0.001	0.00032	1e-07	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-2R	Thallium, Total	mg/L	23	21	91	0.01000	4.1e-05	0.0017	0.001	0.0026	6.9e-06	0.001 - 0.01	2016-08-11 to 2025-05-06
CCR-AP-3R	Thallium, Total	mg/L	22	21	95	0.01000	0.00016	0.00219	0.001	0.0032	1e-05	0.001 - 0.01	2016-08-15 to 2025-05-06
CCR-AP-4R	Thallium, Total	mg/L	23	20	87	0.00100	2.1e-05	0.000889	0.001	0.0003	8.7e-08	0.001 - 0.001	2016-06-07 to 2025-05-06
CCR-AP-5R	Thallium, Total	mg/L	20	17	85	0.01000	7.6e-05	0.00224	0.001	0.0034	1.1e-05	0.001 - 0.01	2016-06-06 to 2025-05-06
CCR-AP-6	Thallium, Total	mg/L	23	18	78	0.01000	3.9e-05	0.0012	0.001	0.002	3.8e-06	0.001 - 0.01	2016-06-07 to 2025-05-06
CCR-AP-7R	Thallium, Total	mg/L	23	22	96	0.01000	5.4e-05	0.00135	0.001	0.0019	3.6e-06	0.001 - 0.01	2016-06-09 to 2025-05-06
CCR-BK-1	Thallium, Total	mg/L	23	21	91	0.00100	3.8e-05	0.000926	0.001	0.00025	6.1e-08	0.001 - 0.001	2016-08-11 to 2025-05-07
CCR-BK-2	Thallium, Total	mg/L	23	19	83	0.00100	5.9e-05	0.000878	0.001	0.0003	8.8e-08	0.001 - 0.001	2016-06-08 to 2025-05-07
Pooled Background	Thallium, Total	mg/L	46	40	87	0.00100	3.8e-05	0.000902	0.001	0.00027	7.3e-08	0.001 - 0.001	2016-06-08 to 2025-05-07

Note:

Units: mg/L = milligrams per liter, pCi/L = picocuries per liter

Table A-2. Results of Shapiro-Wilk Test for Normality

Location	Constituent	n	n, non-detects	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Shapiro-Wilk Test for Lognormality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Distribution
				W statistic	p-value	Data Normality (significance level = 0.01)	W statistic	p-value	Data Lognormality (significance level = 0.01)	
CCR-AP-1R	Antimony, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Antimony, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Antimony, Total	22	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Antimony, Total	23	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Antimony, Total	20	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Antimony, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Antimony, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Antimony, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-2	Antimony, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Antimony, Total	46	42	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Arsenic, Total	23	10	0.6898	1.035e-05	Not normal	0.834	0.001413	Not lognormal	Not normal
CCR-AP-2R	Arsenic, Total	23	8	0.6602	4.447e-06	Not normal	0.8763	0.008475	Not lognormal	Not normal
CCR-AP-3R	Arsenic, Total	22	15	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Arsenic, Total	23	14	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Arsenic, Total	21	16	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Arsenic, Total	23	2	0.9033	0.0296	Normal	0.9417	0.1951	Lognormal	Normal
CCR-AP-7R	Arsenic, Total	22	7	0.8077	0.0006627	Not normal	0.8847	0.01485	Lognormal	Lognormal
CCR-BK-1	Arsenic, Total	23	10	0.7555	8.065e-05	Not normal	0.9006	0.02601	Lognormal	Lognormal
CCR-BK-2	Arsenic, Total	24	15	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Arsenic, Total	47	25	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Barium, Total	24	0	0.8735	0.006172	Not normal	0.9505	0.2774	Lognormal	Lognormal
CCR-AP-2R	Barium, Total	24	0	0.9168	0.04973	Normal	0.8532	0.002503	Not lognormal	Normal
CCR-AP-3R	Barium, Total	23	0	0.3272	2.745e-09	Not normal	0.6023	9.575e-07	Not lognormal	Not normal
CCR-AP-4R	Barium, Total	24	0	0.8932	0.01546	Normal	0.881	0.008719	Not lognormal	Normal
CCR-AP-5R	Barium, Total	21	0	0.9467	0.2942	Normal	0.9374	0.1936	Lognormal	Normal
CCR-AP-6	Barium, Total	24	1	0.803	0.0003297	Not normal	0.9133	0.04154	Lognormal	Lognormal
CCR-AP-7R	Barium, Total	24	0	0.911	0.037	Normal	0.9805	0.9043	Lognormal	Normal
CCR-BK-1	Barium, Total	24	0	0.7783	0.0001328	Not normal	0.8887	0.01249	Lognormal	Lognormal
CCR-BK-2	Barium, Total	24	0	0.385	5.109e-09	Not normal	0.568	2.767e-07	Not lognormal	Not normal
Pooled Background	Barium, Total	48	0	0.6061	4.066e-10	Not normal	0.7781	4.308e-07	Not lognormal	Not normal
CCR-AP-1R	Beryllium, Total	23	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Beryllium, Total	23	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Beryllium, Total	22	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Beryllium, Total	23	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Beryllium, Total	20	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Beryllium, Total	23	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Beryllium, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Beryllium, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal

Location	Constituent	n	n, non-detects	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Shapiro-Wilk Test for Lognormality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Distribution
				W statistic	p-value	Data Normality (significance level = 0.01)	W statistic	p-value	Data Lognormality (significance level = 0.01)	
CCR-BK-2	Beryllium, Total	23	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Beryllium, Total	46	42	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Cadmium, Total	24	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Cadmium, Total	24	7	0.4107	8.509e-09	Not normal	0.7208	1.919e-05	Not lognormal	Not normal
CCR-AP-3R	Cadmium, Total	23	10	0.4753	5.016e-08	Not normal	0.7687	0.0001258	Not lognormal	Not normal
CCR-AP-4R	Cadmium, Total	24	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Cadmium, Total	21	15	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Cadmium, Total	24	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Cadmium, Total	24	17	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Cadmium, Total	24	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-2	Cadmium, Total	24	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Cadmium, Total	48	46	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Chromium, Total	24	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Chromium, Total	24	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Chromium, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Chromium, Total	23	3	0.927	0.09403	Normal	0.9687	0.6577	Lognormal	Normal
CCR-AP-5R	Chromium, Total	21	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Chromium, Total	23	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Chromium, Total	23	13	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Chromium, Total	23	8	0.7309	3.624e-05	Not normal	0.948	0.2657	Lognormal	Lognormal
CCR-BK-2	Chromium, Total	23	17	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Chromium, Total	46	25	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Cobalt, Total	24	5	0.4958	5.14e-08	Not normal	0.8827	0.009421	Not lognormal	Not normal
CCR-AP-2R	Cobalt, Total	24	0	0.6219	1.096e-06	Not normal	0.7789	0.000136	Not lognormal	Not normal
CCR-AP-3R	Cobalt, Total	22	5	0.7413	6.883e-05	Not normal	0.9394	0.1919	Lognormal	Lognormal
CCR-AP-4R	Cobalt, Total	24	15	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Cobalt, Total	21	12	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Cobalt, Total	24	0	0.8136	0.0004958	Not normal	0.9707	0.6853	Lognormal	Lognormal
CCR-AP-7R	Cobalt, Total	24	3	0.7586	6.671e-05	Not normal	0.9401	0.164	Lognormal	Lognormal
CCR-BK-1	Cobalt, Total	23	6	0.7196	2.544e-05	Not normal	0.9442	0.2212	Lognormal	Lognormal
CCR-BK-2	Cobalt, Total	24	14	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Cobalt, Total	47	20	0.5115	2.752e-11	Not normal	0.9249	0.004977	Not lognormal	Not normal
CCR-AP-1R	Fluoride	24	3	0.538	1.347e-07	Not normal	0.8939	0.01602	Lognormal	Lognormal
CCR-AP-2R	Fluoride	24	3	0.8673	0.004661	Not normal	0.9529	0.3125	Lognormal	Lognormal
CCR-AP-3R	Fluoride	23	0	0.9349	0.1397	Normal	0.9681	0.6444	Lognormal	Normal
CCR-AP-4R	Fluoride	24	0	0.8932	0.01549	Normal	0.6922	7.954e-06	Not lognormal	Normal
CCR-AP-5R	Fluoride	21	2	0.812	0.001007	Not normal	0.8985	0.03273	Lognormal	Lognormal
CCR-AP-6	Fluoride	24	3	0.8992	0.02065	Normal	0.916	0.04771	Lognormal	Normal
CCR-AP-7R	Fluoride	22	4	0.7801	0.0002484	Not normal	0.9582	0.4545	Lognormal	Lognormal
CCR-BK-1	Fluoride	23	2	0.8565	0.003571	Not normal	0.8113	0.0005836	Not lognormal	Not normal
CCR-BK-2	Fluoride	22	3	0.8834	0.01406	Normal	0.8916	0.02031	Lognormal	Normal
Pooled Background	Fluoride	45	5	0.9046	0.001326	Not normal	0.9143	0.002717	Not lognormal	Not normal

Location	Constituent	n	n, non-detects	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Shapiro-Wilk Test for Lognormality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Distribution
				W statistic	p-value	Data Normality (significance level = 0.01)	W statistic	p-value	Data Lognormality (significance level = 0.01)	
CCR-AP-1R	Lead, Total	24	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Lead, Total	24	15	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Lead, Total	23	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Lead, Total	24	17	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Lead, Total	21	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Lead, Total	24	14	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Lead, Total	23	8	0.6057	1.042e-06	Not normal	0.9193	0.06423	Lognormal	Lognormal
CCR-BK-1	Lead, Total	24	6	0.9337	0.1178	Normal	0.9353	0.128	Lognormal	Normal
CCR-BK-2	Lead, Total	24	16	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Lead, Total	48	22	0.3357	2.025e-13	Not normal	0.8644	5.349e-05	Not lognormal	Not normal
CCR-AP-1R	Lithium, Total	24	14	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Lithium, Total	24	0	0.8944	0.01644	Normal	0.866	0.004404	Not lognormal	Normal
CCR-AP-3R	Lithium, Total	23	0	0.9567	0.4008	Normal	0.9623	0.5104	Lognormal	Normal
CCR-AP-4R	Lithium, Total	24	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Lithium, Total	21	3	0.8571	0.005638	Not normal	0.8755	0.01206	Lognormal	Lognormal
CCR-AP-6	Lithium, Total	24	1	0.9035	0.02557	Normal	0.7564	6.187e-05	Not lognormal	Normal
CCR-AP-7R	Lithium, Total	24	1	0.9481	0.2463	Normal	0.9093	0.03408	Lognormal	Normal
CCR-BK-1	Lithium, Total	24	15	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-2	Lithium, Total	24	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Lithium, Total	48	33	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Mercury, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Mercury, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Mercury, Total	22	13	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Mercury, Total	23	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Mercury, Total	20	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Mercury, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Mercury, Total	23	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Mercury, Total	23	23	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-2	Mercury, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Mercury, Total	46	44	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Molybdenum, Total	24	2	0.9113	0.03758	Normal	0.9401	0.1643	Lognormal	Normal
CCR-AP-2R	Molybdenum, Total	24	0	0.9341	0.1201	Normal	0.8301	0.0009559	Not lognormal	Normal
CCR-AP-3R	Molybdenum, Total	23	0	0.9487	0.2748	Normal	0.9397	0.1769	Lognormal	Normal
CCR-AP-4R	Molybdenum, Total	24	2	0.5681	2.775e-07	Not normal	0.7888	0.0001946	Not lognormal	Not normal
CCR-AP-5R	Molybdenum, Total	21	0	0.8601	0.006363	Not normal	0.948	0.3122	Lognormal	Lognormal
CCR-AP-6	Molybdenum, Total	24	2	0.8702	0.005307	Not normal	0.986	0.9764	Lognormal	Lognormal
CCR-AP-7R	Molybdenum, Total	24	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Molybdenum, Total	23	2	0.9236	0.07965	Normal	0.9488	0.2757	Lognormal	Normal
CCR-BK-2	Molybdenum, Total	24	14	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Molybdenum, Total	47	16	0.8567	3.901e-05	Not normal	0.8527	3.039e-05	Not lognormal	Not normal
CCR-AP-1R	Radium-226 & 228	23	8	0.8585	0.003898	Not normal	0.928	0.09914	Lognormal	Lognormal

Location	Constituent	n	n, non-detects	Shapiro-Wilk Test for Normality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Shapiro-Wilk Test for Lognormality (R programming, package = stats, version 4.3.3, function = shapiro.test, non-detects substituted by 0.5*reporting limit)			Distribution
				W statistic	p-value	Data Normality (significance level = 0.01)	W statistic	p-value	Data Lognormality (significance level = 0.01)	
CCR-AP-2R	Radium-226 & 228	21	6	0.9106	0.05649	Normal	0.9736	0.8106	Lognormal	Normal
CCR-AP-3R	Radium-226 & 228	22	4	0.9139	0.05694	Normal	0.9601	0.4905	Lognormal	Normal
CCR-AP-4R	Radium-226 & 228	23	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Radium-226 & 228	20	7	0.9386	0.2253	Normal	0.8643	0.009348	Not lognormal	Normal
CCR-AP-6	Radium-226 & 228	21	16	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Radium-226 & 228	21	10	0.8946	0.02756	Normal	0.9585	0.4858	Lognormal	Normal
CCR-BK-1	Radium-226 & 228	21	10	0.6719	1.256e-05	Not normal	0.9542	0.4073	Lognormal	Lognormal
CCR-BK-2	Radium-226 & 228	23	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Radium-226 & 228	44	28	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Selenium, Total	24	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Selenium, Total	24	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Selenium, Total	23	3	0.8554	0.003417	Not normal	0.9086	0.03815	Lognormal	Lognormal
CCR-AP-4R	Selenium, Total	24	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Selenium, Total	21	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Selenium, Total	24	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Selenium, Total	24	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Selenium, Total	24	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-2	Selenium, Total	24	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Selenium, Total	48	41	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-1R	Thallium, Total	23	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-2R	Thallium, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-3R	Thallium, Total	22	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-4R	Thallium, Total	23	20	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-5R	Thallium, Total	20	17	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-6	Thallium, Total	23	18	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-AP-7R	Thallium, Total	23	22	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-1	Thallium, Total	23	21	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
CCR-BK-2	Thallium, Total	23	19	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal
Pooled Background	Thallium, Total	46	40	NA	NA	Not Evaluated - Majority (>50% ND)	NA	NA	Not Evaluated - Majority (>50% ND)	Not normal

Table A-3. Results of Rosner/Dixon Test for Outliers

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)										
Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CCR-AP-1R	Antimony, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-2R	Antimony, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-3R	Antimony, Total	22	22	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-4R	Antimony, Total	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-5R	Antimony, Total	20	19	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Antimony, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Antimony, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Antimony, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Antimony, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
Pooled Background	Antimony, Total	46	42	Rosner	4.912, 4.194, 5.203	NA	3.094, 3.085, 3.076	3	NA	NA
CCR-AP-1R	Arsenic, Total	23	10	Dixon	0.5544	0.001698	NA	NA	Yes	NA
CCR-AP-2R	Arsenic, Total	23	8	Dixon	0.547	0.004427	NA	NA	Yes	NA
CCR-AP-3R	Arsenic, Total	22	15	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Arsenic, Total	23	14	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-5R	Arsenic, Total	21	16	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Arsenic, Total	23	2	Dixon	0.1751	0.7872	NA	NA	No	NA
CCR-AP-7R	Arsenic, Total	22	7	Dixon	0.5556	0.004609	NA	NA	Yes	NA
CCR-BK-1	Arsenic, Total	23	10	Dixon	0	0	NA	NA	Yes	NA
CCR-BK-2	Arsenic, Total	24	15	Dixon	0.2589	0.6477	NA	NA	No	NA
Pooled Background	Arsenic, Total	47	25	Rosner	2.739, 2.189, 2.218	NA	3.103, 3.094, 3.085	0	NA	NA
CCR-AP-1R	Barium, Total	24	0	Dixon	0.3231	0.3468	NA	NA	No	NA
CCR-AP-2R	Barium, Total	24	0	Dixon	0.35	0.2509	NA	NA	No	NA
CCR-AP-3R	Barium, Total	23	0	Dixon	0.9252	0	NA	NA	Yes	NA
CCR-AP-4R	Barium, Total	24	0	Dixon	0.2597	0.6432	NA	NA	No	NA
CCR-AP-5R	Barium, Total	21	0	Dixon	0.375	0.245	NA	NA	No	NA
CCR-AP-6	Barium, Total	24	1	Dixon	0.5385	0.004644	NA	NA	Yes	NA
CCR-AP-7R	Barium, Total	24	0	Dixon	0.3488	0.2547	NA	NA	No	NA
CCR-BK-1	Barium, Total	24	0	Dixon	0.427	0.07879	NA	NA	No	NA
CCR-BK-2	Barium, Total	24	0	Dixon	0.8644	0	NA	NA	Yes	NA
Pooled Background	Barium, Total	48	0	Rosner	4.559, 4.476, 3.525	NA	3.112, 3.103, 3.094	3	NA	NA
CCR-AP-1R	Beryllium, Total	23	20	Dixon	0.2874	0.5316	NA	NA	No	NA
CCR-AP-2R	Beryllium, Total	23	19	Dixon	0.9375	0	NA	NA	Yes	NA
CCR-AP-3R	Beryllium, Total	22	20	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-4R	Beryllium, Total	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-5R	Beryllium, Total	20	18	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-6	Beryllium, Total	23	20	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Beryllium, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Beryllium, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Beryllium, Total	23	20	Dixon	0.6875	0	NA	NA	Yes	NA
Pooled Background	Beryllium, Total	46	42	Rosner	4.645, 5.5, 5.65	NA	3.094, 3.085, 3.076	3	NA	NA
CCR-AP-1R	Cadmium, Total	24	19	Dixon	0.1538	0.6782	NA	NA	No	NA
CCR-AP-2R	Cadmium, Total	24	7	Dixon	0.8861	0	NA	NA	Yes	NA
CCR-AP-3R	Cadmium, Total	23	10	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Cadmium, Total	24	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-5R	Cadmium, Total	21	15	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Cadmium, Total	24	21	Dixon	0.9395	0	NA	NA	Yes	NA
CCR-AP-7R	Cadmium, Total	24	17	Dixon	0.9278	0	NA	NA	Yes	NA
CCR-BK-1	Cadmium, Total	24	23	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Cadmium, Total	24	23	Dixon	1	0	NA	NA	Yes	NA
Pooled Background	Cadmium, Total	48	46	Rosner	5.707, 6.71, NA	NA	3.112, 3.103, 3.094	2	NA	NA
CCR-AP-1R	Chromium, Total	24	22	Dixon	0.9211	0	NA	NA	Yes	NA
CCR-AP-2R	Chromium, Total	24	21	Dixon	0.7111	0	NA	NA	Yes	NA
CCR-AP-3R	Chromium, Total	23	21	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Chromium, Total	23	3	Dixon	0.1333	0.5211	NA	NA	No	NA
CCR-AP-5R	Chromium, Total	21	20	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Chromium, Total	23	18	Dixon	0.5667	0	NA	NA	Yes	NA
CCR-AP-7R	Chromium, Total	23	13	Dixon	0.7387	0	NA	NA	Yes	NA
CCR-BK-1	Chromium, Total	23	8	Dixon	0.6835	0	NA	NA	Yes	NA
CCR-BK-2	Chromium, Total	23	17	Dixon	0.5195	0.01428	NA	NA	Yes	NA
Pooled Background	Chromium, Total	46	25	Rosner	3.956, 4.182, 2.782	NA	3.094, 3.085, 3.076	2	NA	NA
CCR-AP-1R	Cobalt, Total	24	5	Dixon	0.787	0	NA	NA	Yes	NA
CCR-AP-2R	Cobalt, Total	24	0	Dixon	0.7833	0	NA	NA	Yes	NA
CCR-AP-3R	Cobalt, Total	22	5	Dixon	0.2575	0.7256	NA	NA	No	NA
CCR-AP-4R	Cobalt, Total	24	15	Dixon	0.8946	0	NA	NA	Yes	NA
CCR-AP-5R	Cobalt, Total	21	12	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Cobalt, Total	24	0	Dixon	0.4702	0.03552	NA	NA	Yes	NA
CCR-AP-7R	Cobalt, Total	24	3	Dixon	0.3947	0.1339	NA	NA	No	NA

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CCR-BK-1	Cobalt, Total	23	6	Dixon	0.6415	0	NA	NA	Yes	NA
CCR-BK-2	Cobalt, Total	24	14	Dixon	0.7705	0	NA	NA	Yes	NA
Pooled Background	Cobalt, Total	47	20	Rosner	5.58, 4.065, 3.854	NA	3.103, 3.094, 3.085	3	NA	NA
CCR-AP-1R	Fluoride	24	3	Dixon	0.8114	0	NA	NA	Yes	NA
CCR-AP-2R	Fluoride	24	3	Dixon	0.4	0.1234	NA	NA	No	NA
CCR-AP-3R	Fluoride	23	0	Dixon	0.1099	0.382	NA	NA	No	NA
CCR-AP-4R	Fluoride	24	0	Dixon	0.5526	0	NA	NA	Yes	NA
CCR-AP-5R	Fluoride	21	2	Dixon	0.3404	0.363	NA	NA	No	NA
CCR-AP-6	Fluoride	24	3	Dixon	0.5634	0	NA	NA	Yes	NA
CCR-AP-7R	Fluoride	22	4	Dixon	0.6579	0	NA	NA	Yes	NA
CCR-BK-1	Fluoride	23	2	Dixon	0.2157	0.9442	NA	NA	No	NA
CCR-BK-2	Fluoride	22	3	Dixon	0.5	0.02699	NA	NA	Yes	NA
Pooled Background	Fluoride	45	5	Rosner	1.622, 1.617, 1.637	NA	3.085, 3.076, 3.067	0	NA	NA
CCR-AP-1R	Lead, Total	24	19	Dixon	0.7018	0	NA	NA	Yes	NA
CCR-AP-2R	Lead, Total	24	15	Dixon	0.0396	0.07261	NA	NA	No	NA
CCR-AP-3R	Lead, Total	23	18	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Lead, Total	24	17	Dixon	0.1084	0.3844	NA	NA	No	NA
CCR-AP-5R	Lead, Total	21	19	Dixon	0.9556	0	NA	NA	Yes	NA
CCR-AP-6	Lead, Total	24	14	Dixon	0.2935	0.4738	NA	NA	No	NA
CCR-AP-7R	Lead, Total	23	8	Dixon	0.6612	0	NA	NA	Yes	NA
CCR-BK-1	Lead, Total	24	6	Dixon	0.1915	0.9348	NA	NA	No	NA
CCR-BK-2	Lead, Total	24	16	Dixon	0.819	0	NA	NA	Yes	NA
Pooled Background	Lead, Total	48	22	Rosner	6.368, 3.939, 4.041	NA	3.112, 3.103, 3.094	3	NA	NA
CCR-AP-1R	Lithium, Total	24	14	Dixon	0.6457	0	NA	NA	Yes	NA
CCR-AP-2R	Lithium, Total	24	0	Dixon	0.3333	0.3081	NA	NA	No	NA
CCR-AP-3R	Lithium, Total	23	0	Dixon	0.2632	0.6593	NA	NA	No	NA
CCR-AP-4R	Lithium, Total	24	23	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-5R	Lithium, Total	21	3	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Lithium, Total	24	1	Dixon	0.2152	0.906	NA	NA	No	NA
CCR-AP-7R	Lithium, Total	24	1	Dixon	0.4091	0.1066	NA	NA	No	NA
CCR-BK-1	Lithium, Total	24	15	Dixon	0	0	NA	NA	Yes	NA
CCR-BK-2	Lithium, Total	24	18	Dixon	0	0	NA	NA	Yes	NA
Pooled Background	Lithium, Total	48	33	Rosner	1.242, 1.277, 1.314	NA	3.112, 3.103, 3.094	0	NA	NA
CCR-AP-1R	Mercury, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-2R	Mercury, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-3R	Mercury, Total	22	13	Dixon	0.7865	0	NA	NA	Yes	NA
CCR-AP-4R	Mercury, Total	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-5R	Mercury, Total	20	20	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-AP-6	Mercury, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-7R	Mercury, Total	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-BK-1	Mercury, Total	23	23	Dixon	All results are non-detect	NA	NA	NA	NA	NA
CCR-BK-2	Mercury, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
Pooled Background	Mercury, Total	46	44	Rosner	6.635, NA, NA	NA	3.094, 3.085, 3.076	1	NA	NA
CCR-AP-1R	Molybdenum, Total	24	2	Dixon	0.4898	0.02354	NA	NA	Yes	NA
CCR-AP-2R	Molybdenum, Total	24	0	Dixon	0.4615	0.0419	NA	NA	Yes	NA
CCR-AP-3R	Molybdenum, Total	23	0	Dixon	0.225	0.8856	NA	NA	No	NA
CCR-AP-4R	Molybdenum, Total	24	2	Dixon	0.7237	0	NA	NA	Yes	NA
CCR-AP-5R	Molybdenum, Total	21	0	Dixon	0.1124	0.3564	NA	NA	No	NA
CCR-AP-6	Molybdenum, Total	24	2	Dixon	0.4865	0.0253	NA	NA	Yes	NA
CCR-AP-7R	Molybdenum, Total	24	20	Dixon	0.9414	0	NA	NA	Yes	NA
CCR-BK-1	Molybdenum, Total	23	2	Dixon	0.3396	0.3081	NA	NA	No	NA
CCR-BK-2	Molybdenum, Total	24	14	Dixon	0.0603	0.1433	NA	NA	No	NA
Pooled Background	Molybdenum, Total	47	16	Rosner	2.064, 1.618, 1.538	NA	3.103, 3.094, 3.085	0	NA	NA
CCR-AP-1R	Radium-226 & 228	23	8	Dixon	0.5992	0	NA	NA	Yes	NA
CCR-AP-2R	Radium-226 & 228	21	6	Dixon	0.1382	0.5016	NA	NA	No	NA
CCR-AP-3R	Radium-226 & 228	22	4	Dixon	0.3008	0.4974	NA	NA	No	NA
CCR-AP-4R	Radium-226 & 228	23	18	Dixon	0.9119	0	NA	NA	Yes	NA
CCR-AP-5R	Radium-226 & 228	20	7	Dixon	0.343	0.3887	NA	NA	No	NA
CCR-AP-6	Radium-226 & 228	21	16	Dixon	0.8837	0	NA	NA	Yes	NA
CCR-AP-7R	Radium-226 & 228	21	10	Dixon	0.3584	0.2983	NA	NA	No	NA
CCR-BK-1	Radium-226 & 228	21	10	Dixon	0.7727	0	NA	NA	Yes	NA
CCR-BK-2	Radium-226 & 228	23	18	Dixon	0.569	0	NA	NA	Yes	NA
Pooled Background	Radium-226 & 228	44	28	Rosner	4.004, 3.874, 3.623	NA	3.076, 3.067, 3.057	3	NA	NA
CCR-AP-1R	Selenium, Total	24	22	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-2R	Selenium, Total	24	20	Dixon	0.9294	0	NA	NA	Yes	NA
CCR-AP-3R	Selenium, Total	23	3	Dixon	0.4	0.1386	NA	NA	No	NA
CCR-AP-4R	Selenium, Total	24	19	Dixon	0.2462	0.7172	NA	NA	No	NA
CCR-AP-5R	Selenium, Total	21	19	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Selenium, Total	24	22	Dixon	1	0	NA	NA	Yes	NA

Rosner or Dixon Test for Outliers (R programming, package = outliers, version 0.15, function = dixon.test or rosnerTest, non-detects substituted by 0.5*reporting limit)

Location	Constituent	n	n, non-detects	Outlier Test	statistic	p-value (Dixon)	critical value (Rosner)	n of statistical outliers (significance level = 0.05, Rosner)	statistical outlier (significance level = 0.05, Dixon)	outlier removed
CCR-AP-7R	Selenium, Total	24	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Selenium, Total	24	20	Dixon	0.1408	0.5923	NA	NA	No	NA
CCR-BK-2	Selenium, Total	24	21	Dixon	0.9507	0	NA	NA	Yes	NA
Pooled Background	Selenium, Total	48	41	Rosner	3.266, 3.574, 4.178	NA	3.112, 3.103, 3.094	3	NA	NA
CCR-AP-1R	Thallium, Total	23	19	Dixon	0.1991	0.948	NA	NA	No	NA
CCR-AP-2R	Thallium, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-AP-3R	Thallium, Total	22	21	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-4R	Thallium, Total	23	20	Dixon	0.4154	0.1093	NA	NA	No	NA
CCR-AP-5R	Thallium, Total	20	17	Dixon	0	0	NA	NA	Yes	NA
CCR-AP-6	Thallium, Total	23	18	Dixon	0.9178	0	NA	NA	Yes	NA
CCR-AP-7R	Thallium, Total	23	22	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-1	Thallium, Total	23	21	Dixon	1	0	NA	NA	Yes	NA
CCR-BK-2	Thallium, Total	23	19	Dixon	0.2971	0.4847	NA	NA	No	NA
Pooled Background	Thallium, Total	46	40	Rosner	3.498, 3.962, 3.603	NA	3.094, 3.085, 3.076	3	NA	NA

Table A-4. Results of Mann Kendall and Thiel Sen Trend Tests

		Secular Trend Evaluation for All Data										Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)													
Location	Constituent	Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
CCR-AP-1R	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	23	1	0.0634	NA	NA	NA	NA	NA	NA	8	1	0.11	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	1.5	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Antimony, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	22	0	1.46	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Antimony, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	20	1	1.41	NA	NA	NA	NA	NA	NA	8	1	1.5	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Antimony, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	1.37	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	1.4	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.239	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	2	0.137	NA	NA	NA	NA	NA	NA	8	1	0.141	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Antimony, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	46	4	0.192	NA	NA	NA	NA	NA	NA	8	1	0.141	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Arsenic, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	13	1.06	0.109	0.502	49.8	26	NA	NA	NA	8	2	0.637	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Arsenic, Total	No Trend	No Trend	23	15	1.05	0.181	0.243	75.7	45	NA	NA	NA	8	6	0.677	2021-11-17 to 2025-05-06	0.4	0.212	78.8	11	NA	NA	NA	NA
CCR-AP-3R	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	22	7	1.18	NA	NA	NA	NA	NA	NA	8	2	0.761	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	9	1	NA	NA	NA	NA	NA	NA	8	2	0.637	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	5	1.1	NA	NA	NA	NA	NA	NA	8	2	0.714	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Arsenic, Total	Decreasing	No Trend	23	21	0.672	-0.353	0.02	98	-89	-8.6e-07	0.0035	-0.00031	8	7	0.471	2021-11-18 to 2025-05-06	0.286	0.386	61.4	8	NA	NA	NA	
CCR-AP-7R	Arsenic, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	22	15	0.802	0.147	0.363	63.7	33	NA	NA	NA	8	3	0.538	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Arsenic, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	13	0.811	0.232	0.146	85.4	55	NA	NA	NA	8	2	0.765	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	9	0.923	NA	NA	NA	NA	NA	NA	NA	8	2	0.663	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Arsenic, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	47	22	0.871	NA	NA	NA	NA	NA	NA	NA	8	3	0.596	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Barium, Total	Increasing	Increasing	24	24	0.576	0.62	0.0000271	100	170	1.4e-05	0.012	0.005	8	8	0.266	2021-11-17 to 2025-05-06	0.618	0.0461	95.4	17	2.5e-05	0.04	0.0091	
CCR-AP-2R	Barium, Total	No Trend	Stable	24	24	0.249	0.0477	0.765	23.5	13	NA	NA	NA	8	8	0.166	2021-11-17 to 2025-05-06	-0.0364	1	0	-1	NA	NA	NA	
CCR-AP-3R	Barium, Total	No Trend	Stable	23	23	1.27	0.0041	1	0	1	NA	NA	NA	8	8	0.315	2021-11-17 to 2025-05-06	-0.182	0.618	38.2	-5	NA	NA	NA	

Note:
Mann Kendall test run on seasonally adjusted data when seasonal trends were identified.
Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Location	Constituent	Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)						Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)		
CCR-AP-4R	Barium, Total	Decreasing	Probably Decreasing	24	24	0.349	-0.302	0.0418	95.8	-83	-1.2e-05	0.09	-0.0042	8	8	0.289	2021-11-17 to 2025-05-06	-0.571	0.0635	93.7	-16	NA	NA	NA		
CCR-AP-5R	Barium, Total	Increasing	Decreasing	21	21	0.136	0.338	0.043	95.7	67	7.9e-07	0.016	0.00029	8	8	0.0859	2020-05-26 to 2025-05-06	-0.643	0.0427	95.7	-17	-3e-06	0.023	-0.0011		
CCR-AP-6	Barium, Total	Decreasing	Stable	24	23	0.502	-0.47	0.00179	99.8	-126	-3.7e-06	0.022	-0.0014	8	8	0.417	2021-11-18 to 2025-05-06	-0.265	0.445	55.5	-7	NA	NA	NA		
CCR-AP-7R	Barium, Total	Decreasing	Stable	24	24	0.337	-0.536	0.000336	100	-145	-5.5e-06	0.037	-0.002	8	8	0.268	2021-11-17 to 2025-05-06	-0.371	0.258	74.2	-10	NA	NA	NA		
CCR-BK-1	Barium, Total	Increasing	No Trend	24	24	0.457	0.343	0.022	97.8	93	7.2e-06	0.036	0.0026	8	8	0.41	2021-11-18 to 2025-05-07	0.473	0.135	86.5	13	NA	NA	NA		
CCR-BK-2	Barium, Total	Stable	Stable	24	24	0.566	-0.221	0.147	85.3	-59	NA	NA	NA	8	8	0.156	2021-11-18 to 2025-05-07	-0.463	0.158	84.2	-12	NA	NA	NA		
Pooled Background	Barium, Total	No Trend	No Trend	48	48	0.508	0.0635	0.538	46.2	70	NA	NA	NA	8	8	0.562	NA	0.0741	0.9	10	2	NA	NA	NA		
CCR-AP-1R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	3	0.271	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-2R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	4	1.58	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-3R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	22	2	1.52	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-4R	Beryllium, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-5R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	20	2	1.54	NA	NA	NA	NA	NA	NA	NA	8	0	1.5	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-6	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	3	0.176	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-7R	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.195	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-BK-1	Beryllium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.164	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-BK-2	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.162	NA	NA	NA	NA	NA	NA	NA	8	1	0.133	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	
Pooled Background	Beryllium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	46	4	0.161	NA	NA	NA	NA	NA	NA	NA	8	1	0.133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	5	0.31	NA	NA	NA	NA	NA	NA	NA	8	1	0.306	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-2R	Cadmium, Total	No Trend	Stable	24	17	1.6	-0.141	0.356	64.4	-38	NA	NA	NA	8	5	0.334	2021-11-17 to 2025-05-06	-0.309	0.369	63.1	-8	NA	NA	NA		
CCR-AP-3R	Cadmium, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	13	1.74	0.201	0.206	79.4	48	NA	NA	NA	8	3	0.362	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-4R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	2	0.223	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-5R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	21	6	1.56	NA	NA	NA	NA	NA	NA	NA	8	4	1.75	2020-05-26 to 2025-05-06	-0.491	0.126	87.4	-13	NA	NA	NA	NA	
CCR-AP-6	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	3	1.45	NA	NA	NA	NA	NA	NA	NA	8	1	0.314	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	
CCR-AP-7R	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	7	1.6	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	

Note:

Mann Kendall test run on seasonally adjusted data when seasonal trends were identified.

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Location	Constituent	Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)					
		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)		
CCR-BK-1	Cadmium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	24	1	0.173	NA	NA	NA	NA	NA	NA	8	1	0.323	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Cadmium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	24	1	0.108	NA	NA	NA	NA	NA	NA	8	1	0.197	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Cadmium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	48	2	0.143	NA	NA	NA	NA	NA	NA	8	2	0.385	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	2	1.82	NA	NA	NA	NA	NA	NA	8	0	0.401	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	3	1.22	NA	NA	NA	NA	NA	NA	8	0	0.458	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	1.27	NA	NA	NA	NA	NA	NA	8	0	0.448	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Chromium, Total	Stable	Stable	23	20	0.306	-0.0242	0.894	10.6	-6	NA	NA	8	6	0.233	2021-11-17 to 2025-05-06	-0.182	0.618	38.2	-5	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Chromium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	21	1	1.2	NA	NA	NA	NA	NA	NA	8	0	0.942	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	1.11	NA	NA	NA	NA	NA	NA	8	1	0.584	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	10	0.955	NA	NA	NA	NA	NA	NA	8	1	0.413	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Chromium, Total	No Trend	Increasing	23	15	0.736	0.128	0.423	57.7	31	NA	NA	8	4	0.39	2021-11-18 to 2025-05-07	0.667	0.0327	96.7	18	1.5e-06	0.0008	0.00055	NA	NA	NA
CCR-BK-2	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	6	0.963	NA	NA	NA	NA	NA	NA	8	2	0.621	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Chromium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	46	21	0.848	NA	NA	NA	NA	NA	NA	8	3	0.331	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Cobalt, Total	Decreasing	Stable	24	19	1.9	-0.539	0.000304	100	-146	-3.7e-07	0.0012	-0.00014	8	5	0.607	2021-11-17 to 2025-05-06	0	1	0	0	NA	NA	NA	NA	NA
CCR-AP-2R	Cobalt, Total	Stable	Probably Decreasing	24	24	0.471	-0.119	0.44	56	-32	NA	NA	8	8	0.352	2021-11-17 to 2025-05-06	-0.571	0.0635	93.7	-16	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Cobalt, Total	No Trend	Stable	22	17	0.978	0.144	0.366	63.4	33	NA	NA	8	8	0.259	2021-11-17 to 2025-05-06	-0.143	0.711	28.9	-4	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Cobalt, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	9	1.44	NA	NA	NA	NA	NA	NA	8	0	0.318	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Cobalt, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	9	1.35	NA	NA	NA	NA	NA	NA	8	3	1.33	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Cobalt, Total	Decreasing	Stable	24	24	0.924	-0.394	0.00786	99.2	-108	-5.4e-07	0.002	-0.0002	8	8	0.841	2021-11-18 to 2025-05-06	-0.286	0.386	61.4	-8	NA	NA	NA	NA	NA
CCR-AP-7R	Cobalt, Total	Decreasing	Stable	24	21	1.09	-0.451	0.00227	99.8	-124	-4e-07	0.0014	-0.00015	8	6	0.481	2021-11-17 to 2025-05-06	-0.473	0.135	86.5	-13	NA	NA	NA	NA	NA
CCR-BK-1	Cobalt, Total	No Trend	Increasing	23	17	1.05	-0.218	0.159	84.1	-54	NA	NA	8	4	0.498	2021-11-18 to 2025-05-07	0.718	0.0219	97.8	19	1.3e-07	0.00021	4.7e-05	NA	NA	NA
CCR-BK-2	Cobalt, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	1.87	NA	NA	NA	NA	NA	NA	8	2	0.799	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Cobalt, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	47	27	1.53	-0.0128	0.91	9	-13	NA	NA	8	3	0.359	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Fluoride	No Trend	Decreasing	24	21	0.866	0.0844	0.584	41.6	23	NA	NA	8	8	0.252	2021-11-17 to 2025-05-06	-0.618	0.0461	95.4	-17	-0.00021	0.61	-0.075	NA	NA	NA
CCR-AP-2R	Fluoride	Stable	No Trend	24	21	0.468	-0.147	0.332	66.8	-40	NA	NA	8	7	0.27	2021-11-17 to 2025-05-06	0.357	0.266	73.4	10	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Fluoride	No Trend	No Trend	23	23	0.281	0.0485	0.77	23	12	NA	NA	8	8	0.295	2021-11-17 to 2025-05-06	0.0714	0.902	9.8	2	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Fluoride	Probably Decreasing	Stable	24	24	0.231	-0.265	0.0807	91.9	-71	NA	NA	8	8	0.219	2021-11-17 to 2025-05-06	-0.34	0.308	69.2	-9	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Fluoride	No Trend	Stable	21	19	0.391	0.18	0.275	72.5	37	NA	NA	8	8	0.426	2020-05-26 to 2025-05-06	0	1	0	0	NA	NA	NA	NA	NA	NA

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		Trends, All Data	Trends, Recent Data	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)		
CCR-AP-6	Fluoride	Stable	Probably Decreasing	24	21	0.438	0	1	0	0	NA	NA	NA	8	8	0.32	2021-11-18 to 2025-05-06	-0.591	0.0699	93	-15	NA	NA	NA
CCR-AP-7R	Fluoride	No Trend	Decreasing	22	18	0.51	0.031	0.865	13.5	7	NA	NA	NA	8	8	0.361	2021-11-17 to 2025-05-06	-0.691	0.0248	97.5	-19	-0.00012	0.25	-0.045
CCR-BK-1	Fluoride	Decreasing	Stable	23	21	0.313	-0.349	0.024	97.6	-86	-4.8e-05	0.34	-0.017	8	7	0.398	2021-11-18 to 2025-05-07	-0.416	0.203	79.7	-11	NA	NA	NA
CCR-BK-2	Fluoride	Stable	Stable	22	19	0.426	-0.098	0.551	44.9	-22	NA	NA	NA	8	6	0.606	2021-11-18 to 2025-05-07	-0.286	0.386	61.4	-8	NA	NA	NA
Pooled Background	Fluoride	Probably Decreasing	Stable	45	40	0.473	-0.174	0.0977	90.2	-170	NA	NA	NA	8	8	0.256	NA	-0.34	0.308	69.2	-9	NA	NA	NA
CCR-AP-1R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	5	0.439	NA	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	9	1.6	NA	NA	NA	NA	NA	NA	NA	8	2	0.085	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	1.51	NA	NA	NA	NA	NA	NA	NA	8	1	0.147	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	7	0.388	NA	NA	NA	NA	NA	NA	NA	8	2	0.249	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	21	2	1.47	NA	NA	NA	NA	NA	NA	NA	8	0	1.5	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	1.35	NA	NA	NA	NA	NA	NA	NA	8	2	0.671	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Lead, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	23	15	1.34	0.0372	0.83	17	9	NA	NA	NA	8	2	0.193	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Lead, Total	Stable	Probably Increasing	24	18	0.603	-0.0224	0.9	10	-6	NA	NA	NA	8	4	0.356	2021-11-18 to 2025-05-07	0.564	0.0842	91.6	14	NA	NA	NA
CCR-BK-2	Lead, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	8	1.9	NA	NA	NA	NA	NA	NA	NA	8	2	0.898	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Lead, Total	No Trend	Not Evaluated - Majority of data (>50%) non-detect	48	26	1.94	-0.0448	0.68	32	-45	NA	NA	NA	8	3	0.148	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	1.19	NA	NA	NA	NA	NA	NA	NA	8	3	0.393	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Lithium, Total	Decreasing	Stable	24	24	0.372	-0.635	0.000019	100	-173	-1.1e-05	0.059	-0.0041	8	8	0.039	2021-11-17 to 2025-05-06	-0.197	0.605	39.5	-5	NA	NA	NA
CCR-AP-3R	Lithium, Total	Stable	Stable	23	23	0.164	-0.129	0.411	58.9	-32	NA	NA	NA	8	8	0.186	2021-11-17 to 2025-05-06	-0.143	0.711	28.9	-4	NA	NA	NA
CCR-AP-4R	Lithium, Total	Not Evaluated - Only one detected result	Not Evaluated - Only one detected result	24	1	0.913	NA	NA	NA	NA	NA	NA	NA	8	1	0.339	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Lithium, Total	Stable	Stable	21	18	0.237	-0.0653	0.713	28.7	-13	NA	NA	NA	8	7	0.24	2020-05-26 to 2025-05-06	-0.403	0.232	76.8	-10	NA	NA	NA
CCR-AP-6	Lithium, Total	Decreasing	Decreasing	24	23	0.417	-0.686	0.00000375	100	-187	-9.4e-06	0.043	-0.0034	8	8	0.364	2021-11-18 to 2025-05-06	-0.764	0.0126	98.7	-21	-1.3e-05	0.025	-0.0048
CCR-AP-7R	Lithium, Total	Decreasing	Decreasing	24	23	0.279	-0.318	0.0357	96.4	-85	-2.7e-06	0.024	-0.00097	8	8	0.307	2021-11-17 to 2025-05-06	-0.691	0.0248	97.5	-19	-1e-05	0.024	-0.0038
CCR-BK-1	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	Probably Increasing	24	9	0.838	NA	NA	NA	NA	NA	NA	NA	8	6	0.684	2021-11-18 to 2025-05-07	0.546	0.0809	91.9	15	NA	NA	NA
CCR-BK-2	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	24	6	0.906	NA	NA	NA	NA	NA	NA	NA	8	5	0.352	2021-11-18 to 2025-05-07	0.0378	1	0	1	NA	NA	NA
Pooled Background	Lithium, Total	Not Evaluated - Majority of data (>50%) non-detect	No Trend	48	15	0.865	NA	NA	NA	NA	NA	NA	NA	8	4	0.79	NA	0.242	0.507	49.3	6	NA	NA	NA

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		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)		
CCR-AP-1R	Mercury, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0315	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Mercury, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0421	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Mercury, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	22	9	0.889	NA	NA	NA	NA	NA	NA	8	1	0.989	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	20	0	0	NA	NA	NA	NA	NA	NA	8	0	0	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Mercury, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	0.0957	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Mercury, Total	Not Evaluated - No detected results	Not Evaluated - No detected results	23	0	0	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Mercury, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.2	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Mercury, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	46	2	0.144	NA	NA	NA	NA	NA	NA	8	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Molybdenum, Total	No Trend	Probably Decreasing	24	22	0.295	0.0368	0.823	17.7	10	NA	NA	NA	8	7	0.234	2021-11-17 to 2025-05-06	-0.571	0.0635	93.7	-16	NA	NA	NA	NA	NA
CCR-AP-2R	Molybdenum, Total	Stable	Decreasing	24	24	0.219	-0.196	0.202	79.8	-52	NA	NA	NA	8	8	0.264	2021-11-17 to 2025-05-06	-0.815	0.00832	99.2	-22	-0.00068	1.6	-0.25	NA	
CCR-AP-3R	Molybdenum, Total	Probably Decreasing	Stable	23	23	0.137	-0.297	0.0532	94.7	-74	NA	NA	NA	8	8	0.161	2021-11-17 to 2025-05-06	-0.4	0.212	78.8	-11	NA	NA	NA	NA	NA
CCR-AP-4R	Molybdenum, Total	Decreasing	No Trend	24	22	0.779	-0.522	0.000557	99.9	-139	-3.7e-07	0.0021	-0.00013	8	7	0.281	2021-11-17 to 2025-05-06	0.189	0.612	38.8	5	NA	NA	NA	NA	
CCR-AP-5R	Molybdenum, Total	Increasing	Increasing	21	21	0.69	0.842	0.000000119	100	176	4.8e-05	0.019	0.017	8	8	0.334	2020-05-26 to 2025-05-06	0.982	0.00119	99.9	27	8.9e-05	0.042	0.032	NA	
CCR-AP-6	Molybdenum, Total	Decreasing	Stable	24	22	0.67	-0.842	0.0000000113	100	-231	-3.1e-06	0.01	-0.0011	8	6	0.323	2021-11-18 to 2025-05-06	-0.473	0.135	86.5	-13	NA	NA	NA	NA	
CCR-AP-7R	Molybdenum, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	4	1.47	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Molybdenum, Total	Stable	Increasing	23	21	0.466	-0.154	0.325	67.5	-38	NA	NA	NA	8	8	0.392	2021-11-18 to 2025-05-07	0.857	0.00443	99.6	24	1.6e-06	0.00053	0.00059	NA	
CCR-BK-2	Molybdenum, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	24	10	0.421	NA	NA	NA	NA	NA	NA	8	3	0.456	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Molybdenum, Total	Stable	No Trend	47	31	0.445	-0.0952	0.379	62.1	-93	NA	NA	NA	8	5	0.226	NA	0.322	0.352	64.8	8	NA	NA	NA	NA	NA
CCR-AP-1R	Radium-226 & 228	No Trend	No Trend	23	15	0.801	0.115	0.46	54	29	NA	NA	NA	8	5	0.798	2021-11-17 to 2025-05-06	0.214	0.536	46.4	6	NA	NA	NA	NA	NA
CCR-AP-2R	Radium-226 & 228	Probably Decreasing	Not Evaluated - Majority of data (>50%) non-detect	21	15	0.575	-0.286	0.0748	92.5	-60	NA	NA	NA	8	3	0.802	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Radium-226 & 228	No Trend	No Trend	22	18	0.571	0.039	0.822	17.8	9	NA	NA	NA	8	7	0.538	2021-11-17 to 2025-05-06	0.143	0.711	28.9	4	NA	NA	NA	NA	NA
CCR-AP-4R	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	2.77	NA	NA	NA	NA	NA	NA	8	1	1.06	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Radium-226 & 228	Increasing	No Trend	20	13	0.584	0.491	0.00282	99.7	93	0.00015	0.32	0.055	8	6	0.49	2020-05-26 to 2025-05-06	0.214	0.536	46.4	6	NA	NA	NA	NA	NA
CCR-AP-6	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	21	5	2.41	NA	NA	NA	NA	NA	NA	8	2	0.869	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Radium-226 & 228	No Trend	Stable	21	11	0.796	0.19	0.239	76.1	40	NA	NA	NA	8	5	0.727	2021-11-17 to 2025-05-06	-0.357	0.266	73.4	-10	NA	NA	NA	NA	NA
CCR-BK-1	Radium-226 & 228	No Trend	Stable	21	11	1.08	0.257	0.11	89	54	NA	NA	NA	8	4	0.967	2021-11-18 to 2025-05-07	-0.5	0.108	89.2	-14	NA	NA	NA	NA	NA
CCR-BK-2	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	5	1.62	NA	NA	NA	NA	NA	NA	8	2	1.07	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

Mann Kendall test run on seasonally adjusted data when seasonal trends were identified.

Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Location	Constituent	Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)				
		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
Pooled Background	Radium-226 & 228	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	44	16	1.36	NA	NA	NA	NA	NA	NA	8	3	0.794	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	2	0.17	NA	NA	NA	NA	NA	NA	8	1	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	24	4	1.6	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Selenium, Total	Stable	Stable	23	20	0.873	-0.189	0.223	77.7	-47	NA	NA	NA	8	7	0.955	2021-11-17 to 2025-05-06	-0.445	0.167	83.3	-12	NA	NA	NA	NA
CCR-AP-4R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	5	0.289	NA	NA	NA	NA	NA	NA	8	1	0.0725	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	21	2	1.47	NA	NA	NA	NA	NA	NA	8	1	1.57	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	2	1.37	NA	NA	NA	NA	NA	NA	8	1	0.069	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	3	1.4	NA	NA	NA	NA	NA	NA	8	1	0.0555	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	4	0.299	NA	NA	NA	NA	NA	NA	8	1	0.028	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	24	3	0.215	NA	NA	NA	NA	NA	NA	8	1	0.0142	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pooled Background	Selenium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	48	7	0.257	NA	NA	NA	NA	NA	NA	8	2	0.0332	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-1R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	4	0.326	NA	NA	NA	NA	NA	NA	8	1	0.028	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-2R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	1.53	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-3R	Thallium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	22	1	1.45	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-4R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	3	0.277	NA	NA	NA	NA	NA	NA	8	1	0.229	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-5R	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	20	3	1.45	NA	NA	NA	NA	NA	NA	8	2	1.54	2020-05-26 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-6	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	23	5	1.59	NA	NA	NA	NA	NA	NA	8	1	0.229	2021-11-18 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-AP-7R	Thallium, Total	Not Evaluated - Only one detected result	Not Evaluated - No detected results	23	1	1.4	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-17 to 2025-05-06	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-1	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - No detected results	23	2	0.225	NA	NA	NA	NA	NA	NA	8	0	0	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA
CCR-BK-2	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Majority of data (>50%) non-detect	23	4	0.302	NA	NA	NA	NA	NA	NA	8	2	0.309	2021-11-18 to 2025-05-07	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

Mann Kendall test run on seasonally adjusted data when seasonal trends were identified.

Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Secular Trend Evaluation for All Data											Secular Trend Evaluation for Recent Data (subset of 8 most recent data points)														
Location	Constituent	Mann Kendall Trends		Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)							Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)			Mann-Kendall Test (R programming, package = Kendall, version = 2.2.1, function = MannKendall, non-detects substituted by 0.5*reporting limit)					Thiel-Sen Test (R programming, package = zyp, version = 0.11-1, function = zyp.sen, non-detects substituted by 0.5*reporting limit)						
		Trends, All Data	Trends, Recent Data	n	n, detected results	Coefficient of Variance	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	n	n, detected results	Coefficient of Variance	recent data date range	Kendall's Tau	p-value	Confidence Factor	Kendall Score (S)	Sen Slope	Intercept (for slope in units of change per year)	Sen Slope (units of change per year)	
Pooled Background	Thallium, Total	Not Evaluated - Majority of data (>50%) non-detect	Not Evaluated - Only one detected result	46	6	0.263	NA	NA	NA	NA	NA	NA	NA	8	1	0.173	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note:

Mann Kendall test run on seasonally adjusted data when seasonal trends were identified.

Mann Kendall Trends are classified based on Aziz (2003) guidance. Sen slope only calculated for increasing or decreasing trends as indicated by Mann-Kendall trend test results.

Table A-5. Upper Tolerance Limits (UTLs) & Updated Groundwater Protection Standards (GWPS), Assessment Monitoring

Constituent	Units	n	n, non-detects	Interwell Background Data Characterization [a]										Groundwater Protection Standard (GWPS) Determination					UTL Calculation Details		Minimum Coverage (%)	
				max reporting limit	max detected value	mean	median	min sample date	max sample date	standard deviation	coefficient of variation	Mann Kendall trend	data distribution (Shapiro-Franca) [b]	normalizing data transformation (if any)	UTL	UTL Result Detection Status [c]	MCL/RSL	GWPS	GWPS Source	UTL calculation method		UTL calculation details
Antimony, Total	mg/L	46	42	0.002	0.00062	0.00186	0.002	2016-06-08	2025-05-07	0.00046	0.247	More than 50% NDs	Non-Parametric	NA - Original Data	0.002	No	0.006	0.006	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.7
Arsenic, Total	mg/L	47	25	0.005	0.0035	0.00156	0.001	2016-06-08	2025-05-07	0.00148	0.951	More than 50% NDs	Non-Parametric	NA - Original Data	0.005	No	0.01	0.01	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.8
Barium, Total	mg/L	48	0	NA	0.15	0.0452	0.037	2016-06-08	2025-05-07	0.023	0.508	No Trend	Non-Parametric	NA - Original Data	0.15	Yes	2	2	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9
Beryllium, Total	mg/L	46	42	0.001	0.0004	0.000935	0.001	2016-06-08	2025-05-07	0.000215	0.23	More than 50% NDs	Non-Parametric	NA - Original Data	0.001	No	0.004	0.004	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.7
Cadmium, Total	mg/L	48	46	0.001	0.00024	0.000965	0.001	2016-06-08	2025-05-07	0.000169	0.175	More than 50% NDs	Non-Parametric	NA - Original Data	0.001	No	0.005	0.005	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9
Chromium, Total	mg/L	46	25	0.005	0.0087	0.0027	0.002	2016-06-08	2025-05-07	0.0017	0.629	More than 50% NDs	Non-Parametric	NA - Original Data	0.0087	Yes	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.7
Cobalt, Total	mg/L	47	20	0.001	0.0062	0.000779	0.0005	2016-06-08	2025-05-07	0.000966	1.24	No Trend	Non-Parametric	NA - Original Data	0.0062	Yes	0.006	0.0062	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.8
Fluoride	mg/L	45	5	0.23	0.38	0.224	0.19	2016-08-10	2025-05-07	0.094	0.42	Stable	Non-Parametric	NA - Original Data	0.38	Yes	4	4	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.6
Lead, Total	mg/L	48	22	0.001	0.011	0.00105	0.001	2016-06-08	2025-05-07	0.00157	1.49	No Trend	Non-Parametric	NA - Original Data	0.011	Yes	0.015	0.015	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9
Lithium, Total	mg/L	48	33	0.05	0.016	0.0224	0.008	2016-06-08	2025-05-07	0.0217	0.971	More than 50% NDs	Non-Parametric	NA - Original Data	0.05	No	0.04	0.05	UTL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9
Mercury, Total	mg/L	46	44	0.0002	0.0002	0.000198	0.0002	2016-06-08	2025-05-07	1.47e-05	0.0745	More than 50% NDs	Non-Parametric	NA - Original Data	0.0002	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.7
Molybdenum, Total	mg/L	47	16	0.005	0.0034	0.00262	0.0017	2016-06-08	2025-05-07	0.00182	0.694	Stable	Non-Parametric	NA - Original Data	0.005	No	0.1	0.1	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.8
Radium-226 & 228	pCi/L	44	28	2.74	3.13	0.603	0.362	2016-06-08	2025-05-07	0.709	1.18	More than 50% NDs	Non-Parametric	NA - Original Data	3.13	Yes	5	5	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.4
Selenium, Total	mg/L	48	41	0.005	0.0027	0.00444	0.005	2016-06-08	2025-05-07	0.00141	0.319	More than 50% NDs	Non-Parametric	NA - Original Data	0.005	No	0.05	0.05	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.9
Thallium, Total	mg/L	46	40	0.001	0.00076	0.000902	0.001	2016-06-08	2025-05-07	0.00027	0.3	More than 50% NDs	Non-Parametric	NA - Original Data	0.001	No	0.002	0.002	MCL/RSL	Non-Parametric Tolerance Limits (USEPA, 2009 - Chapter 17.2.2)	Maximum Value (ND = RL, Non-discriminatory of detection status)	93.7

Note:

[a] Interwell background datasets are analyte specific and include data collected from background wells (CCR-AP-7 and WAP-1). Interwell background datasets were re-tested for outliers, secular trends, and data normality. No outliers were removed. Presented values are in original (untransformed) units.

[b] Parametric tolerance limit calculations were performed on normally distributed background data. If background data were not normally distributed, non-parametric tolerance limit calculations were performed.

[c] In some cases, the maximum value selected as the UTL is a non-detect result with an elevated reporting limit.

Units = mg/L, milligrams per liter. pCi/L = picocuries per liter.

Table A-6. Confidence Intervals & SSL Identification, Assessment Monitoring

Location	Constituent	Units	Confidence Interval (CI) Dataset								CI Calculation [a]					SSL Confirmation		Non-Parametric CI Statistics		
			n	max (Rank n)	min (Rank 1)	median	mean	standard deviation	Overall Trend	Recent (8) Trend	Data handling	CI dataset distribution	CI calculation method	degrees of freedom	95% Confidence UCL	95% Confidence LCL	GWPS	LCL > GWPS?	bootstrap iterations	bootstrap median
CCR-AP-3R	Lithium, Total	mg/L	23	0.1	0.053	0.075	0.074	0.0122	Stable	Stable	LCL calculation on all data	Normal	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	22	0.0793	0.0688	0.05	Yes, SSL	NA	NA
CCR-AP-2R	Molybdenum, Total	mg/L	8	1.6	0.6	1.3	1.23	0.325	Stable	Decreasing	Recent data trend, LCL calculation about the recent (8) trend line	Normal	Regression-based LCL with confidence limits (Parametric Test for Trending Data)	7	1.11	0.553	0.10	Yes, SSL	NA	NA
CCR-AP-3R	Molybdenum, Total	mg/L	23	1	0.6	0.86	0.836	0.115	Probably Decreasing	Stable	LCL calculation on all data	Normal	Calculation of the Confidence Interval Around the Normal Mean (Parametric)	22	0.886	0.786	0.10	Yes, SSL	NA	NA
CCR-AP-5R	Molybdenum, Total	mg/L	8	0.2	0.071	0.14	0.141	0.047	Increasing	Increasing	Overall and recent data trend, LCL calculation about the recent (8) trend line	Normal	Regression-based LCL with confidence limits (Parametric Test for Trending Data)	7	0.216	0.176	0.10	Yes, SSL	NA	NA

Note:

Confidence intervals are calculated for analyte/well pairs with GWPS exceedances in the event dataset.

[a] The 95% lower confidence level (LCL) is compared to the Groundwater Protection Standard (GWPS) to confirm a statistically significant level (SSL). The 95% upper confidence level (UCL) is also shown for purposes of comparison.

Table A-7. Groundwater Protection Standard (GWPS) Comparison Table

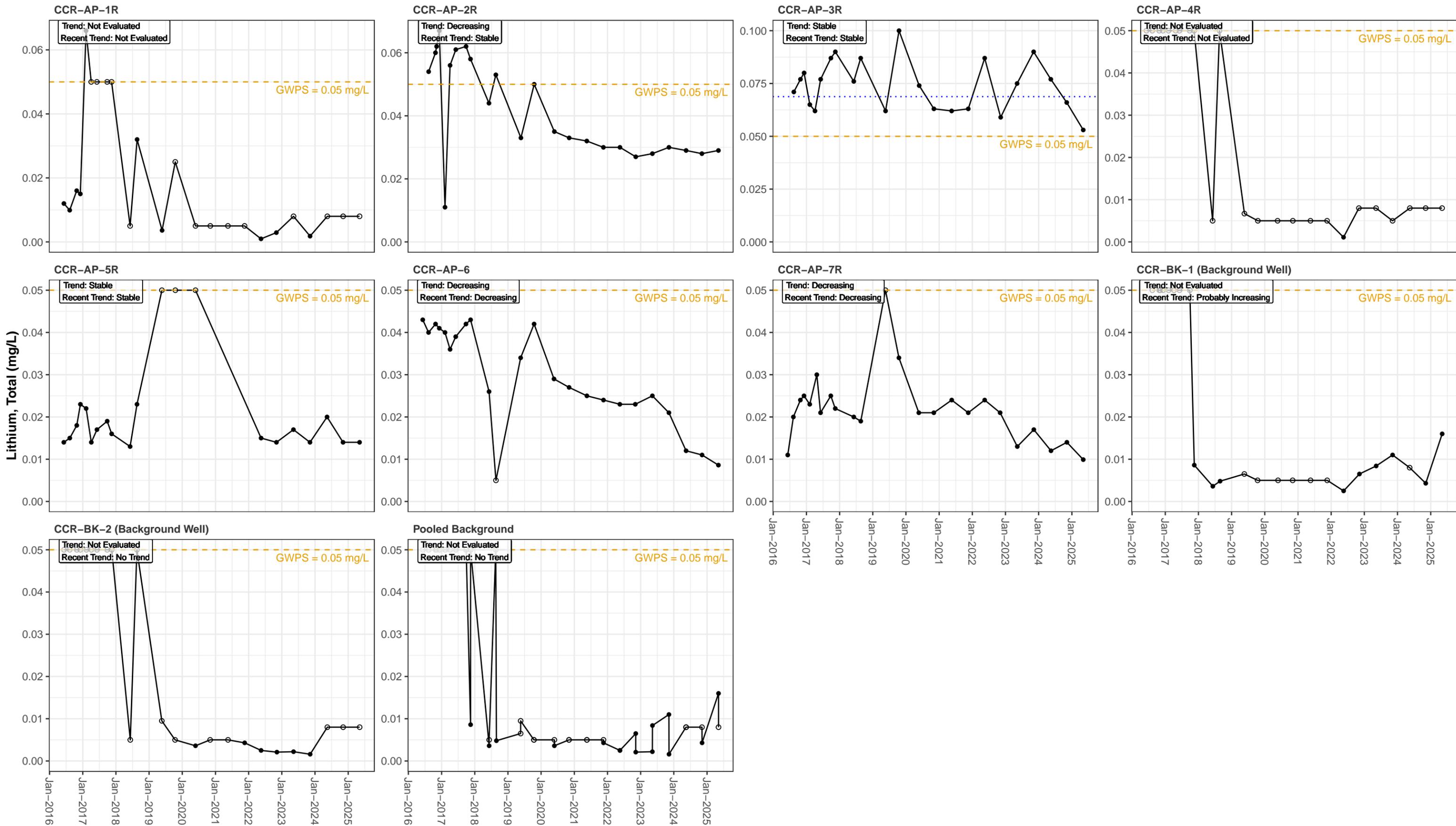
Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CCR-AP-3R	Lithium, Total	mg/L	2025-05-06	0.053	0.05	0.05	Yes	0.0688	Yes
CCR-AP-2R	Molybdenum, Total	mg/L	2025-05-06	0.6	0.005	0.1	Yes	0.553	Yes
CCR-AP-3R	Molybdenum, Total	mg/L	2025-05-06	0.71	0.005	0.1	Yes	0.786	Yes
CCR-AP-5R	Molybdenum, Total	mg/L	2025-05-06	0.2	0.005	0.1	Yes	0.176	Yes
CCR-AP-1R	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-2R	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-3R	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-4R	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-5R	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-6	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-7R	Antimony, Total	mg/L	2025-05-06	0.002 U	0.002	0.006	No	NA	No
CCR-AP-1R	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-2R	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-3R	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-4R	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-5R	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-6	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-7R	Arsenic, Total	mg/L	2025-05-06	0.005 U	0.005	0.01	No	NA	No
CCR-AP-1R	Barium, Total	mg/L	2025-05-06	0.06	0.15	2	No	NA	No
CCR-AP-2R	Barium, Total	mg/L	2025-05-06	0.044	0.15	2	No	NA	No
CCR-AP-3R	Barium, Total	mg/L	2025-05-06	0.014	0.15	2	No	NA	No
CCR-AP-4R	Barium, Total	mg/L	2025-05-06	0.043	0.15	2	No	NA	No
CCR-AP-5R	Barium, Total	mg/L	2025-05-06	0.017	0.15	2	No	NA	No
CCR-AP-6	Barium, Total	mg/L	2025-05-06	0.012	0.15	2	No	NA	No
CCR-AP-7R	Barium, Total	mg/L	2025-05-06	0.02	0.15	2	No	NA	No
CCR-AP-1R	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-2R	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-3R	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-4R	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-5R	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-6	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-7R	Beryllium, Total	mg/L	2025-05-06	0.001 U	0.001	0.004	No	NA	No
CCR-AP-1R	Cadmium, Total	mg/L	2025-05-06	0.001 U	0.001	0.005	No	NA	No
CCR-AP-2R	Cadmium, Total	mg/L	2025-05-06	0.00019 J	0.001	0.005	No	NA	No
CCR-AP-3R	Cadmium, Total	mg/L	2025-05-06	0.00013 J	0.001	0.005	No	NA	No
CCR-AP-4R	Cadmium, Total	mg/L	2025-05-06	0.001 U	0.001	0.005	No	NA	No
CCR-AP-5R	Cadmium, Total	mg/L	2025-05-06	0.00016 J	0.001	0.005	No	NA	No
CCR-AP-6	Cadmium, Total	mg/L	2025-05-06	0.001 U	0.001	0.005	No	NA	No
CCR-AP-7R	Cadmium, Total	mg/L	2025-05-06	0.001 U	0.001	0.005	No	NA	No
CCR-AP-1R	Chromium, Total	mg/L	2025-05-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-2R	Chromium, Total	mg/L	2025-05-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-3R	Chromium, Total	mg/L	2025-05-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-4R	Chromium, Total	mg/L	2025-05-06	0.0017 J	0.0087	0.1	No	NA	No
CCR-AP-5R	Chromium, Total	mg/L	2025-05-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-6	Chromium, Total	mg/L	2025-05-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-7R	Chromium, Total	mg/L	2025-05-06	0.005 U	0.0087	0.1	No	NA	No
CCR-AP-1R	Cobalt, Total	mg/L	2025-05-06	0.00013 J	0.0062	0.0062	No	NA	No
CCR-AP-2R	Cobalt, Total	mg/L	2025-05-06	0.00062 J	0.0062	0.0062	No	NA	No
CCR-AP-3R	Cobalt, Total	mg/L	2025-05-06	0.00056 J	0.0062	0.0062	No	NA	No
CCR-AP-4R	Cobalt, Total	mg/L	2025-05-06	0.001 U	0.0062	0.0062	No	NA	No
CCR-AP-5R	Cobalt, Total	mg/L	2025-05-06	0.00014 J	0.0062	0.0062	No	NA	No
CCR-AP-6	Cobalt, Total	mg/L	2025-05-06	0.00024 J	0.0062	0.0062	No	NA	No
CCR-AP-7R	Cobalt, Total	mg/L	2025-05-06	0.00014 J	0.0062	0.0062	No	NA	No
CCR-AP-1R	Fluoride	mg/L	2025-05-06	0.35	0.38	4	No	NA	No
CCR-AP-2R	Fluoride	mg/L	2025-05-06	0.52	0.38	4	No	NA	No
CCR-AP-3R	Fluoride	mg/L	2025-05-06	0.89	0.38	4	No	NA	No
CCR-AP-4R	Fluoride	mg/L	2025-05-06	0.35	0.38	4	No	NA	No
CCR-AP-5R	Fluoride	mg/L	2025-05-06	0.7	0.38	4	No	NA	No
CCR-AP-6	Fluoride	mg/L	2025-05-06	0.12 J	0.38	4	No	NA	No
CCR-AP-7R	Fluoride	mg/L	2025-05-06	0.078 J	0.38	4	No	NA	No
CCR-AP-1R	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-2R	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Location	Constituent	Units	Sample Date	Sample Result	Upper Threshold Limit (UTL)	GWPS	GWPS Exceedance	LCL	SSL Confirmed
CCR-AP-3R	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-4R	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-5R	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-6	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-7R	Lead, Total	mg/L	2025-05-06	0.001 U	0.011	0.015	No	NA	No
CCR-AP-1R	Lithium, Total	mg/L	2025-05-06	0.008 U	0.05	0.05	No	NA	No
CCR-AP-2R	Lithium, Total	mg/L	2025-05-06	0.029	0.05	0.05	No	NA	No
CCR-AP-4R	Lithium, Total	mg/L	2025-05-06	0.008 U	0.05	0.05	No	NA	No
CCR-AP-5R	Lithium, Total	mg/L	2025-05-06	0.014	0.05	0.05	No	NA	No
CCR-AP-6	Lithium, Total	mg/L	2025-05-06	0.0086	0.05	0.05	No	NA	No
CCR-AP-7R	Lithium, Total	mg/L	2025-05-06	0.0099	0.05	0.05	No	NA	No
CCR-AP-1R	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-2R	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-3R	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-4R	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-5R	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-6	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-7R	Mercury, Total	mg/L	2025-05-06	0.0002 U	0.0002	0.002	No	NA	No
CCR-AP-1R	Molybdenum, Total	mg/L	2025-05-06	0.003 J	0.005	0.1	No	NA	No
CCR-AP-4R	Molybdenum, Total	mg/L	2025-05-06	0.0014 J	0.005	0.1	No	NA	No
CCR-AP-6	Molybdenum, Total	mg/L	2025-05-06	0.005 U	0.005	0.1	No	NA	No
CCR-AP-7R	Molybdenum, Total	mg/L	2025-05-06	0.005 U	0.005	0.1	No	NA	No
CCR-AP-1R	Radium-226 & 228	pCi/L	2025-05-06	0.51 U	3.13	5	No	NA	No
CCR-AP-2R	Radium-226 & 228	pCi/L	2025-05-06	0.788 UJ	3.13	5	No	NA	No
CCR-AP-3R	Radium-226 & 228	pCi/L	2025-05-06	0.571	3.13	5	No	NA	No
CCR-AP-4R	Radium-226 & 228	pCi/L	2025-05-06	0.346 U	3.13	5	No	NA	No
CCR-AP-5R	Radium-226 & 228	pCi/L	2025-05-06	0.875 J+	3.13	5	No	NA	No
CCR-AP-6	Radium-226 & 228	pCi/L	2025-05-06	0.433 U	3.13	5	No	NA	No
CCR-AP-7R	Radium-226 & 228	pCi/L	2025-05-06	0.146 U	3.13	5	No	NA	No
CCR-AP-1R	Selenium, Total	mg/L	2025-05-06	0.005 U	0.005	0.05	No	NA	No
CCR-AP-2R	Selenium, Total	mg/L	2025-05-06	0.005 U	0.005	0.05	No	NA	No
CCR-AP-3R	Selenium, Total	mg/L	2025-05-06	0.016	0.005	0.05	No	NA	No
CCR-AP-4R	Selenium, Total	mg/L	2025-05-06	0.005 U	0.005	0.05	No	NA	No
CCR-AP-5R	Selenium, Total	mg/L	2025-05-06	0.005 U	0.005	0.05	No	NA	No
CCR-AP-6	Selenium, Total	mg/L	2025-05-06	0.005 U	0.005	0.05	No	NA	No
CCR-AP-7R	Selenium, Total	mg/L	2025-05-06	0.005 U	0.005	0.05	No	NA	No
CCR-AP-1R	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-2R	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-3R	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-4R	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-5R	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-6	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No
CCR-AP-7R	Thallium, Total	mg/L	2025-05-06	0.001 U	0.001	0.002	No	NA	No

Groundwater Protection Standard (GWPS) is the maximum value between the Upper Threshold Limit (UTL) and the Maximum Contaminant Level/Regional Screening Level (MCL/RSL). The 95% Lower Confidence Limit (LCL) is calculated if the event sample result exceeded the GWPS. If the LCL is greater than the GWPS, a Statistically Significant Level (SSL) is confirmed.

Assessment Monitoring Trend Analysis for Lithium, Total



--- GWPS
 ... LCL
 Detection Status:
 ● Detect
 ○ Non-Detect

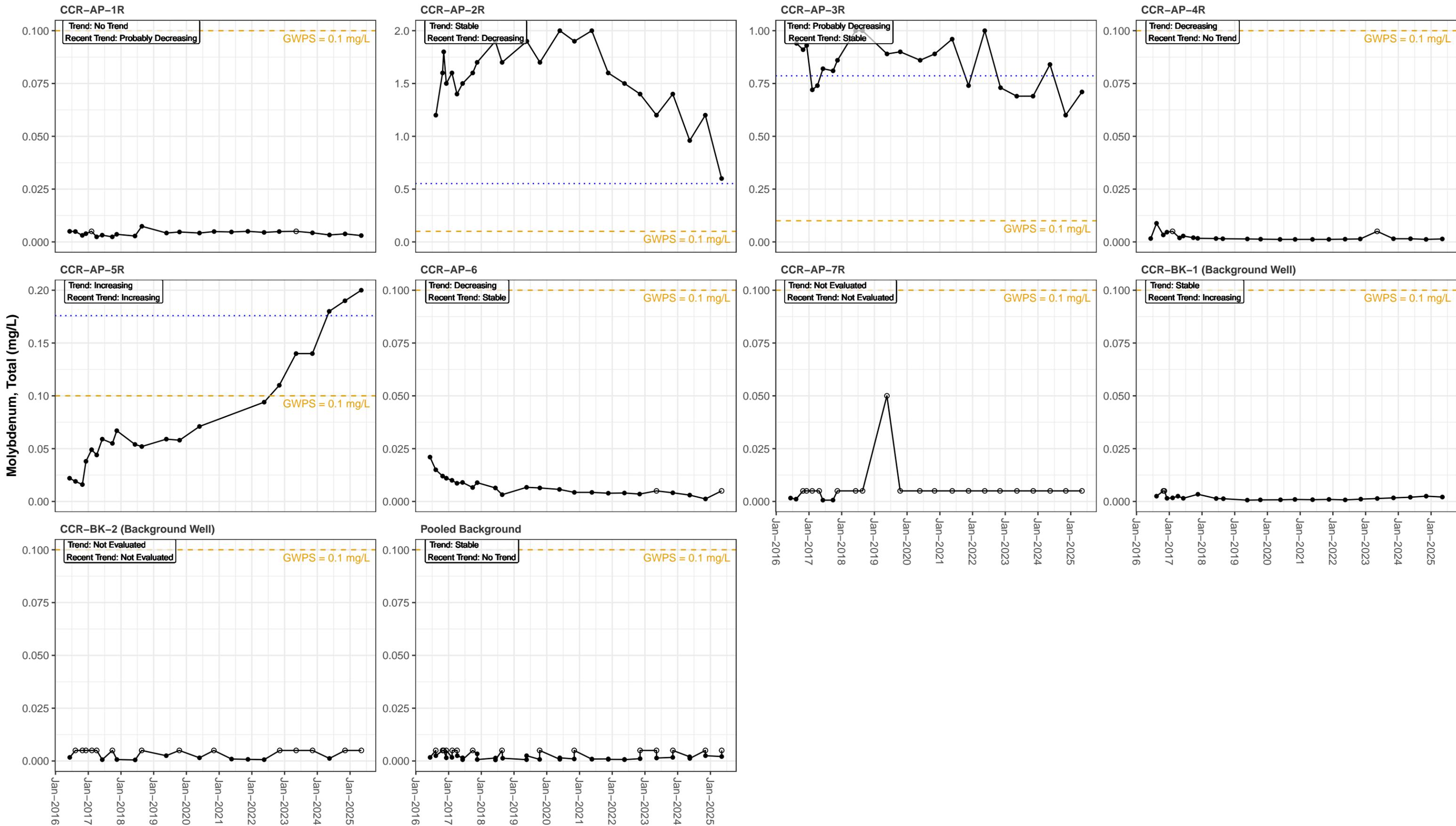
Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RSL and UTL). LCL = lower confidence limit. When the LCL > GWPS, a statistically significant exceedance is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Datasets with more than 50% non-detect results do not meet minimum requirements for trend analysis and datasets were not evaluated.

Assessment Monitoring Trend Analysis for Molybdenum, Total



Legend: GWPS (dashed orange line), LCL (dotted blue line), Detection Status: ● Detect, ○ Non-Detect

Notes: GWPS = Groundwater Protection Standard (max level between the MCL/RS� and UTL). LCL = lower confidence limit. When the LCL > GWPS, a statistically significant exceedance is concluded.

*Recent data are considered the 8 most recent data points collected for each well/analyte.

Trend classifications are based on Aziz (2003) guidance for Mann Kendall trend test results.

Datasets with more than 50% non-detect results do not meet minimum requirements for trend analysis and datasets were not evaluated.

APPENDIX B
Field Forms

HALEY ALDRICH		GROUNDWATER LEVEL MONITORING REPORT										Form FMG 5.1-01 Rev (06-09-09)
Project:		AB Brown		Client: SIGECO				File Number: 0129420-035-001-01				
Location:		Evansville, IN		Weather:				Project Manager: Neal Kochis				
Reference:		Top of Casing		Units: ft				Field Representative: F. Reed, R. Elwer				
Method:		Dip		Comments:								
CCR Unit	Monitoring Well ID	Date	Time	Well Dry? (Y/N)	Depth to Water (ft)	Depth to top of pump	Well Bottom (Measured)	Well Bottom (From Table) (ft bgs)	Riser Elevation (ft)	Water Elevation (ft)	Remarks	Measured By
AshPond	CCR-BK-1R	5/5/25	16:45	N	61.52	60.61	-	64.00	483.39	421.87	DTW Below pump. Pump @60.95	
	CCR-BK-2	5/5/25	14:11	N	17.03	25.14	-	25.50	430.60	413.57		
	CCR-AP-1R	5/5/25	16:14	N	18.47	33.71	-	39.87	467.57	449.10		
	CCR-AP-2IR	5/5/25	12:26	N	39.26	86.38	96.68	64.78	465.79	426.53		
	CCR-AP-2R	5/5/25	12:28	N	49.40	49.77	56.03	56.03	468.13	418.73		
	CCR-AP-3R	5/5/25	12:36	N	40.68	40.79	46.77	47.00	449.41	408.73	40.74	
	CCR-AP-3I	5/5/25	12:35	N	32.24	69.27	-	77.50	450.02	417.78		
	CCR-AP-4R	5/5/25	16:05	N	34.03	44.54	-	50.58	475.38	441.35		
	CCR-AP-5R	5/5/25	12:41	N	36.65	44.41	-	47.14	453.14	416.49		
	CCR-AP-6	5/5/25	17:01	N	15.73	38.26	-	41.67	461.36	445.63		
	CCR-AP-7R	5/5/25	16:35	N	35.18	49.77	-	56.07	488.57	453.39		
	CCR-AP-8	5/5/25	11:58	N	3.55	12.83	-	19.37	416.84	413.29		
	CCR-AP-9	5/5/25	14:56	N	7.95	26.96	-	35.20	391.14	383.19		
	CCR-AP-10	5/5/25	15:57	N	36.85	40.47	-	46.04	474.01	437.16		
	CCR-AP-11	5/5/25	15:24	N	9.38	N/A	-	25.27	376.72	367.34		
	FD-PZ-1	5/5/25	12:05	N	8.12	N/A	18.39	18.50	418.94	410.82		
	FD-PZ-2	5/5/25	11:42	N	2.88	N/A	33.15	34.00	423.34	420.46	water in the well box	
	FD-PZ-3S	5/5/25	-	-	-	N/A	18.78	19.60	420.45	#VALUE!	cannot gauge, well area flooded/ 10.21' DTB 18:20' 05/08/25	
	FD-PZ-3D	5/5/25	-	-	-	N/A	33.68	34.00	420.67	#VALUE!	cannot gauge, well area flooded/ 13.71' DTB 33.68 05/08/25	
	FD-PZ-4	5/5/25	12:15	N	10.52	N/A	-	23.00	419.19	408.67		
	HA-PP-1	5/5/25	15:00	N	2.53	N/A	-	3.50	381.82	379.29		
	HA-PP-2	5/5/25	15:05	N	2.28	N/A	-	3.50	381.51	379.23		
	CMA-01	5/5/25	12:44	N	32.29	N/A	-	47.31	445.87	413.58		
	CMA-01I	5/5/25	12:46	N	33.12	N/A	-	72.45	446.25	413.13		
CMA-02	5/5/25	12:48	N	27.10	N/A	-	50.85	436.63	409.53			
CMA-02I	5/5/25	12:49	N	26.75	N/A	-	76.18	436.51	409.76			
CMA-03	5/5/25	13:53	N	28.07	N/A	-	50.95	436.29	408.22			
CMA-03I	5/5/25	12:54	N	28.78	N/A	-	76.65	436.16	407.38			
CMA-04	5/5/25	12:57	N	25.20	N/A	-	46.98	435.89	410.69			

HALEY ALDRICH		GROUNDWATER LEVEL MONITORING REPORT										Form FMG 5.1-01 Rev (06-09-09)
Project:		AB Brown		Client: SIGECO				File Number: 0129420-035-001-01				
Location:		Evansville, IN		Weather:				Project Manager: Neal Kochis				
Reference:		Top of Casing		Units: ft				Field Representative: F. Reed, R. Elwer				
Method:		Dip		Comments:								
CCR Unit	Monitoring Well ID	Date	Time	Well Dry? (Y/N)	Depth to Water (ft)	Depth to top of pump	Well Bottom (Measured)	Well Bottom (From Table) (ft bgs)	Riser Elevation (ft)	Water Elevation (ft)	Remarks	Measured By
Ash Pond	CMA-04I	5/5/25	12:58	N	27.26	N/A	-	76.56	436.21	408.95		
	CMA-04BR	5/5/25	12:58	N	17.63	N/A	-	108.21	436.54	418.91		
	CMA-05	5/5/25	13:03	N	21.51	N/A	-	42.96	436.26	414.75		
	CMA-05I	5/5/25	13:02	N	21.98	N/A	-	67.16	436.52	414.54		
	CMA-06	5/5/25	15:12	N	6.76	N/A	-	33.94	392.08	385.32		
	CMA-06I	5/5/25	15:11	N	5.08	N/A	-	59.55	392.22	387.14		
	CMA-06BR	5/5/25	15:10	N	7.58	N/A	-	70.55	392.44	384.86		
	CMA-07I	5/5/25	15:38	N	15.70	N/A	-	47.42	419.95	404.25		
	CMA-08I	5/5/25	15:35	N	35.30	N/A	-	52.85	443.25	407.95		
Landfill	CCR-LF-1	5/5/25	13:31	N	6.94	18.29	-	19.00	435.63	428.69		
	CCR-LF-2	5/5/25	15:25	N	27.63	44.34	-	45.00	473.00	445.37		
	CCR-LF-3	5/5/25	13:20	N	31.20	34.15	-	35.00	484.75	453.55		
	CCR-LF-4	5/5/25	16:32	N	47.68	54.34	-	55.00	478.85	431.17		
	CCR-LF-5	5/5/25	14:04	N	21.24	29.93	-	30.00	430.41	409.17		
	CCR-LF-6	5/5/25	13:55	N	7.18	8.79	-	9.66	412.05	404.87		
Sed Pond	CCR-SP-1R	5/5/25	13:46	N	10.58	16.46	-	20.00	403.94	393.36		
	CCR-SP-2	5/5/25	13:42	N	13.55	15.26	-	20.00	403.23	389.68		
	CCR-SP-3	5/5/25	13:50	N	5.50	15.71	-	20.00	403.57	398.07		



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R. Elwer
SAMPLING DATE 05/07/25

Sampling Data: Well Depth as Built: 64.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-BK-1R Well Depth Measured: 66.7 ft Initial Depth To Water: 61.52 ft Field Parameter Device: HORIBA U-52
 Start time: 7:45 Depth To Top Of Screen: 54.0 ft Depth Of Pump Intake: 64.25 ft Tubing Present In Well: Yes No
 Finish Time: 10:20 Depth To Bottom Of Scree 64.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
8:15	61.64	100	100	0.8	14.84	6.49	0.639	2.11	238	82	Set bladder pump at the bottom of the screen
8:25	61.75	100	100	1.1	15.02	7.17	0.6	1.46	150	4	
8:30	61.8	100	100	1.3	15.12	7.23	0.574	1.32	104	20	
8:35	61.85	100	100	1.5	15.17	7.24	0.55	1.24	83.6	49	
8:40	61.9	100	100	1.9	15.24	7.22	0.525	1.3	58.2	83	
8:45	61.97	100	100	2.1	15.31	7.17	0.507	1.37	46	120	
8:50	62.09	100	100	2.3	15.5	7.15	0.48	1.69	23.2	174	
8:55	62.16	100	100	2.5	15.6	7.15	0.451	2.41	11.2	211	
9:00	62.24	100	100	2.6	15.63	7.15	0.431	2.68	6.5	232	
9:05	62.33	100	100	3.0	15.6	7.13	0.412	2.76	5.4	254	
9:10	62.4	100	100	3.2	15.57	7.15	0.407	2.66	4.9	264	
9:15	62.45	100	100	3.8	15.58	7.14	0.403	2.63	4.9	267	
9:20	62.5	100	100	4.2	15.52	7.14	0.4	2.55	5.4	271	
											Sample ID: CCR-BK-1R-050725
											Sample Time: 09:20
											DTW after sampling: 63.2'
											4.2 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R. Elwer
SAMPLING DATE 05/07/25

Sampling Data: Well Depth as Built: 25.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-BK-2 Well Depth Measured: NA ft Initial Depth To Water: 16.98 ft Field Parameter Device: HORIBA U-52
 Start time: 10:40 Depth To Top Of Screen: 15.5 ft Depth Of Pump Intake: 25.06 ft Tubing Present In Well: Yes No
 Finish Time: 12:30 Depth To Bottom Of Scree 25.5 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
10:55	17.15	120	120	0.8	17.67	7.22	0.417	6.26	5.91.4	300	
11:00	17.18	120	120	11.4	16.59	6.79	0.401	2.48	0.5	312	
11:05	17.22	120	120	1.5	16.43	6.9	0.39	1.94	0.1	311	
11:10	17.24	120	120	1.9	16.36	6.83	0.386	1.66	0.1	316	
11:15	17.25	120	120	2.3	16.33	6.65	0.38	1.43	0	325	
11:20	17.26	120	120	2.6	16.39	6.6	0.374	1.27	0	326	
11:25	17.27	120	120	3.0	16.41	6.54	0.373	1.18	0	329	
11:30	17.27	120	120	3.4	16.47	6.53	0.367	1.1	0	329	
11:35	17.27	120	120	4.2	16.48	6.56	0.364	1.03	0	327	
11:40	17.27	120	120	5.3	16.62	6.74	0.361	1.02	0	315	
11:45	17.29	120	120	5.7	16.69	6.82	0.359	0.95	0	313	
11:50	17.29	120	120	6.1	16.88	6.8	0.357	0.93	0	312	
											Sample ID: CCR-BK-2-050725
											Sample Time: 11:50
											6.1 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R. Elwer
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 93.6 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-2IR Well Depth Measured: 96.71 ft Initial Depth To Water: 38.28 ft Field Parameter Device: HORIBA U-52
 Start time: 14:10 Depth To Top Of Screen: 83.6 ft Depth Of Pump Intake: 89.0 ft Tubing Present In Well: Yes No
 Finish Time: 16:30 Depth To Bottom Of Scree 93.6 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
14:20	40.56	100	100	0.8	20.17	7.34	2.3	2.95	2.4	310	
14:25	41.22	100	100	1.1	20.04	7.22	2.22	1.68	2.9	299	
14:30	41.69	100	100	1.5	19.97	7.13	2.18	1.26	0.3	296	
14:35	42.19	100	100	1.7	20.1	7.12	2.16	1.02	0	286	
14:40	42.5	100	100	1.9	20.2	7.11	2.16	0.97	0	281	
14:45	42.91	100	100	2.3	20.29	7.12	2.15	0.89	0	274	
14:50	43.23	100	100	2.5	20.31	7.11	2.15	0.86	0	270	
14:55	43.51	100	100	2.8	20.35	7.11	2.15	0.83	0	266	
15:00	43.82	100	100	3.0	20.34	7.05	2.14	0.8	0	265	
15:05	43.98	100	100	3.4	20.55	7.09	2.14	0.79	0	264	
15:10	44.12	100	100	3.8	20.73	7.09	2.14	0.78	0	264	
											Sample ID: CCR-AP-2IR-050625
											Sample Time: 15:10
											Field Blank Taken: FB-1-050625
											Field Blank Time: 13:40
											3.6 L Purged Total
											DTW after sampling: 46.71

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R. Elwer
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 47.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-3R Well Depth Measured: NA ft Initial Depth To Water: Below Pump ft Field Parameter Device: HORIBA U-52
 Start time: 10:50 Depth To Top Of Screen: 37.0 ft Depth Of Pump Intake: 45.0 ft Tubing Present In Well: Yes No
 Finish Time: 12:40 Depth To Bottom Of Scree 47.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
10:50	*	100	100	0.8	20.89	7.72	8.98	3.08	0.1	265	* The water level is below the pump
10:55	*	100	100	1.1	19.04	7.56	9.46	2.36	0.0	267	
11:00	*	100	100	1.5	18.56	7.49	9.66	1.26	0.0	266	
11:05	*	100	100	1.9	18.41	7.46	9.73	0.90	0.0	261	
11:10	*	100	100	2.3	18.22	7.46	9.76	0.73	0.0	256	
11:15	*	100	100	2.6	18.10	7.46	9.76	0.65	0.0	251	
11:20	*	100	100	3.2	18.15	7.45	9.77	0.60	0.0	245	
11:25	*	100	100	3.8	18.20	7.44	9.79	0.60	0.0	241	
11:30	*	100	100	4.2	18.10	7.44	9.80	0.57	0.0	238	
11:35	*	100	100	4.9	18.18	7.44	9.80	0.55	0.0	235	
											Sample ID: CCR-AP-3R-050625
											Sample Time: 11:35
											4.9 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R.Elwer
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 77.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-3I Well Depth Measured: 78.3 ft Initial Depth To Water: 32.62 ft Field Parameter Device: HORIBA U-52
 Start time: 8:30 Depth To Top Of Screen: 67.5 ft Depth Of Pump Intake: 69.27 ft Tubing Present In Well: Yes No
 Finish Time: 10:45 Depth To Bottom Of Scree 77.5 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
8:35	32.36	100	100	0.8	15.00	6.94	1.06	3.59	26.2	315	
8:40	33.78	100	100	1.5	15.89	8.02	0.991	2.15	40	259	
8:45	33.99	100	100	2.3	16.04	8.21	0.999	1.84	29.5	236	
8:50	34.24	100	100	3.0	16.10	8.33	1.01	1.62	24.7	216	
8:55	34.5	100	100	3.8	16.22	8.39	1.03	1.47	24	199	
9:00	34.7	100	100	4.5	16.27	8.42	1.03	1.31	23.2	186	
9:05	34.9	100	100	4.9	16.37	8.46	1.05	1.21	18.3	171	
9:10	35.1	100	100	5.3	16.44	8.48	1.05	1.19	14.5	160	
9:15	35.28	100	100	5.7	16.51	8.45	1.06	1.04	12.4	147	
9:20	35.45	100	100	6.4	16.60	8.48	1.06	0.97	11.6	134	
9:25	35.59	100	100	7.6	16.76	8.51	1.07	0.95	11.7	126	
9:30	35.75	100	100	8.3	16.92	8.53	1.19	0.94	13.3	122	
9:35	35.91	100	100	9.1	16.99	8.54	1.2	0.86	14.1	115	
9:40	36.04	100	100	9.8	17.12	8.54	1.2	0.82	13.7	113	
9:45	36.18	100	100	10.6	17.31	8.54	1.2	0.8	13.7	108	
											Sample ID: CCR-AP-3I-050625
											Sample Time: 09:45
											DTW after sampling: 38.21'
											10.6 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 48.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-4R Well Depth Measured: NA ft Initial Depth To Water: 34.12 ft Field Parameter Device: HORIBA U-52
 Start time: 15:54 Depth To Top Of Screen: 38.0 ft Depth Of Pump Intake: NA ft Tubing Present In Well: Yes No
 Finish Time: 17:00 Depth To Bottom Of Scree 48.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
15:54	34.53	200	200	1.8	16.09	7.19	0.76	7.77	129	192	
15:59	34.54	200	200	2.2	15.81	7.15	0.729	6.77	97.3	202	
16:04	34.55	200	200	3.2	15.76	7.14	0.719	6.5	85.5	208	
16:09	34.56	200	200	4.2	15.64	7.15	0.716	6.28	76.7	213	
16:14	34.57	200	200	5.2	15.68	7.14	0.714	6.21	64.8	216	
16:19	34.58	200	200	6.2	15.67	7.15	0.713	6.1	62.7	218	
16:24	34.59	200	200	7.2	15.62	7.15	0.712	6.06	50.6	221	
16:29	34.62	200	200	8.2	15.63	7.15	0.712	5.98	48.5	222	
16:34	34.63	200	200	9.2	15.66	7.15	0.712	5.97	42.8	224	
16:39	34.63	200	200	10.1	15.73	7.15	0.715	5.9	42.5	225	
16:44	34.62	200	200	11.0	15.66	7.15	0.709	5.84	36.7	227	
16:49	34.61	200	200	12.0	15.59	7.15	0.71	5.85	33.5	228	
16:54	34.63	200	200	13.0	15.60	7.14	0.709	5.78	33.6	229	
											Sample ID: CCR-AP-4R-050625
											Sample Time: 17:00
											13.5 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 39.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-6 Well Depth Measured: NA ft Initial Depth To Water: 16.8 ft Field Parameter Device: HORIBA U-52
 Start time: 8:29 Depth To Top Of Screen: 29.0 ft Depth Of Pump Intake: 38.6 ft Tubing Present In Well: Yes No
 Finish Time: 9:20 Depth To Bottom Of Scree 39.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
8:29	16.67	200	200	0.8	13.67	6.61	3.95	1.71	58.8	258	
8:34	16.90	200	200	2.0	13.96	6.61	3.88	0.78	144	142	
8:39	17.02	200	200	3.0	14.03	6.61	3.86	0.62	37.5	108	
8:44	17.08	200	200	4.0	14.19	6.61	3.86	0.58	13.9	99	
8:49	17.12	200	200	5.0	14.34	6.61	3.85	0.57	10.4	99	
8:54	17.14	200	200	6.0	14.36	6.61	3.85	0.55	8.1	101	
8:59	17.12	200	200	7.0	14.39	6.61	3.85	0.50	6.8	94	
9:04	17.10	200	200	8.0	14.37	6.61	3.84	0.45	7.0	92	
9:09	17.20	200	200	9.0	14.37	6.61	3.84	0.43	5.5	91	
9:14	17.12	200	200	10.0	14.40	6.60	3.84	0.42	5.4	90	
9:19	17.12	200	200	11.0	14.47	6.60	3.85	0.41	5.2	90	
											Sample ID: CCR-AP-6-050625
											Sample Time: 09:20
											Field Duplicate Taken
											Dup ID: DUP-1-050625
											Dup Time: 12:00
											13 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R. Elwer
SAMPLING DATE _____

Sampling Data: Well Depth as Built: 16.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-8 Well Depth Measured: NA ft Initial Depth To Water: 3.51 ft Field Parameter Device: HORIBA
 Start time: 17:45 Depth To Top Of Screen: 6.2 ft Depth Of Pump Intake: 12.83 ft Tubing Present In Well: Yes No
 Finish Time: 19:25 Depth To Bottom Of Scree 16.2 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
17:55	3.78	120	120	0.8	18.88	7.63	2.72	2.91	10.7	229	
18:00	3.76	120	120	0.9	17.19	7.36	2.84	1.71	10.4	248	
18:05	3.81	120	120	1.5	16.43	7.24	2.89	1.19	6.3	250	
18:10	3.85	120	120	2.3	15.96	7.19	2.91	0.82	4.5	241	
18:15	3.84	120	120	2.8	15.90	7.17	2.91	0.66	2.6	229	
18:20	3.84	120	120	3.4	15.76	7.15	2.92	0.58	1.4	126	
18:25	3.85	120	120	4.2	15.74	7.15	2.92	0.52	0.9	32	
18:30	3.85	120	120	4.9	15.65	7.13	2.93	0.48	0.2	-11	
18:35	3.85	120	120	5.7	15.52	7.14	2.93	0.46	0.0	-14	
18:40	3.86	120	120	6.2	15.47	7.14	2.93	0.44	0.0	-31	
18:45	3.86	120	120	6.6	15.41	7.13	2.93	0.43	0.0	-44	
18:50	3.86	120	120	7.6	15.29	7.09	2.93	0.41	0.0	-48	
18:55	3.86	120	120	8.3	15.20	7.11	2.93	0.40	0.0	-54	
											Sample ID: CCR-AP-8-050625
											Sample Time: 18:55
											8.3 L purged Total

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. R. Elwer
SAMPLING DATE 05/07/25

Sampling Data: Well Depth as Built: 35.2 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-9 Well Depth Measured: NA ft Initial Depth To Water: 8.05 ft Field Parameter Device: HORIBA U-52
 Start time: 12:40 Depth To Top Of Screen: 25.2 ft Depth Of Pump Intake: NA ft Tubing Present In Well: Yes No
 Finish Time: 14:15 Depth To Bottom Of Scree 35.2 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
12:50	9.35	160	160	1.1	20.25	6.85	12	1.44	35.2	-101	
12:55	9.85	120	120	1.3	19.19	7.15	12.5	0.72	23.5	-122	
13:00	10.03	100	100	1.5	19.08	7.17	12.5	0.62	16.5	-124	
13:05	10.24	100	100	1.9	19.03	7.19	12.6	0.56	9.9	-126	
13:10	10.40	100	100	2.3	18.85	7.20	12.6	0.52	7.9	-127	
13:15	10.55	100	100	2.5	18.82	7.21	12.6	0.48	8.1	-127	
13:20	10.67	100	100	2.6	18.72	7.20	12.6	0.45	7.9	-127	
13:25	10.78	100	100	3.0	18.74	7.20	12.6	0.46	8.5	-127	
											Sample ID: CCR-AP-9-050725
											Sample Time: 13:25
											3 L purged Total

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 43.3 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-10 Well Depth Measured: NA ft Initial Depth To Water: 37.13 ft Field Parameter Device: HORIBA U-52
 Start time: 14:12 Depth To Top Of Screen: 33.2 ft Depth Of Pump Intake: 42.8 ft Tubing Present In Well: Yes No
 Finish Time: 15:05 Depth To Bottom Of Scree 43.2 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
14:12	37.70	240	240	1.0	15.41	7.11	4.37	1.67	203	179	
14:17	37.83	240	240	2.0	15.38	7.08	4.27	1.66	141	180	
14:22	37.88	240	240	3.1	15.31	7.07	4.28	1.51	102	181	
14:27	37.95	240	240	4.4	15.28	7.07	4.29	1.29	77.9	182	
14:32	38.00	240	240	5.7	15.16	7.07	4.29	1.15	67.6	183	
14:37	38.01	240	240	7.1	15.24	7.08	4.29	1.06	59.6	182	
14:42	38.10	240	240	8.3	15.13	7.07	4.29	1.01	52.5	183	
14:47	38.10	240	240	9.8	15.10	7.08	4.30	0.95	44.3	183	
14:52	38.15	240	240	11.0	15.08	7.09	4.30	0.90	40.5	183	
14:57	38.18	240	240	12.1	15.13	7.08	4.29	0.88	38.8	183	
15:02	38.24	240	240	13.3	15.11	7.08	4.29	0.81	39.3	183	
											Sample ID: CCR-AP-10-050625
											Sample Time: 15:05
											16 L Purged Total



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 05/06/25

Sampling Data: Well Depth as Built: 26.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-11 Well Depth Measured: NA ft Initial Depth To Water: 9.3 ft Field Parameter Device: HORIBA
 Start time: 18:09 Depth To Top Of Screen: 16.0 ft Depth Of Pump Intake: 21.0 ft Tubing Present In Well: Yes No
 Finish Time: 19:05 Depth To Bottom Of Scree 26.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
18:08	9.50	200	200	0.1	15.74	6.91	1.07	2.39	502	222	
18:13	9.50	200	200	1.7	14.67	6.83	1.09	1.4	563	223	
18:18	9.50	200	200	2.2	14.26	6.81	1.10	1.23	548	223	
18:23	9.50	200	200	3.2	14.05	6.8	1.10	1.14	414	222	
18:28	9.72	400	400	4.8	13.55	6.78	1.10	1.19	204	222	
18:33	9.74	400	400	6.8	13.45	6.77	1.09	1.13	123	221	
18:38	9.73	400	400	9.0	13.30	6.76	1.08	1.05	79.9	219	
18:43	9.65	400	400	10.5	13.29	6.76	1.07	0.99	68.7	218	
18:48	9.68	400	400	12.5	13.20	6.76	1.06	0.97	58.6	215	
18:53	9.72	400	400	14.0	13.11	6.75	1.06	0.96	53.3	214	
18:58	9.68	400	400	16.0	13.10	6.76	1.05	0.97	49.6	212	
19:03	9.70	400	400	18.0	13.06	6.76	1.05	1.01	48.9	210	
											Sample ID: CCR-AP-11-050625
											Sample Time: 17:05
											19 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 05/07/25

Sampling Data: Well Depth as Built: 18.5 ft Well Diameter: 1.0 in Purging Device: Peristaltic
 Well ID: FD-PZ-1 Well Depth Measured: NA ft Initial Depth To Water: 8.12 ft Field Parameter Device: HORIBA
 Start time: 10:07 Depth To Top Of Screen: 13.5 ft Depth Of Pump Intake: 16 ft Tubing Present In Well: Yes No
 Finish Time: 10:55 Depth To Bottom Of Scree 18.5 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
10:07	8.18	240	240	0.8	17.20	7.25	7.01	1.02	55.80	-111	
10:12	8.19	240	240	2.0	16.72	7.19	6.97	0.65	39.00	-83	
10:17	8.2	240	240	3.0	16.62	7.15	6.98	0.49	14.50	-62	
10:22	8.2	200	200	4.0	16.58	7.13	7.06	0.37	8.50	-51	
10:27	8.2	200	200	5.0	16.59	7.12	7.14	0.32	6.40	-46	
10:32	8.2	200	200	6.0	16.58	7.12	7.18	0.30	5.50	-44	
10:37	8.2	200	200	7.2	16.60	7.11	7.22	0.26	4.40	-42	
10:42	8.2	200	200	8.5	16.70	7.11	7.24	0.25	4.00	-41	
10:47	8.2	220	220	9.9	16.79	7.11	7.24	0.23	3.30	-40	
10:52	8.2	220	220	11.0	16.90	7.11	7.11	0.23	3.10	-40	
											Sample ID: FD-PZ-1-050725
											Sample time: 10:55
											11.7 L Purged Total

well volume = 3.14 (PI) x radius² x height of water column.
 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F.Reed
SAMPLING DATE 05/07/25

Sampling Data: Well Depth as Built: 34.0 ft Well Diameter: 1.0 in Purging Device: Peristaltic
 Well ID: FD-PZ-2 Well Depth Measured: 33.13 ft Initial Depth To Water: 2.75 ft Field Parameter Device: HORIBA
 Start time: 8:17 Depth To Top Of Screen: 24.0 ft Depth Of Pump Intake: 33.5 ft Tubing Present In Well: Yes No
 Finish Time: 9:00 Depth To Bottom Of Scree 34.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
8:17	16.70	500	500	3.5	15.5	6.7	0.6	0.6	41.6	37	3 Well Volumes = 14 L
8:20	18.65	500	500	5.0	15.5	6.7	0.6	0.5	195.0	25	
8:23	*	500	500	6.3	15.6	6.8	0.6	0.6	46.0	40	* = Water Level Meter tape is stuck in the 1" PVC
8:26	*	500	500	7.8	15.7	6.8	0.6	0.6	32.2	59	piezometer @ 21.5 ft. Cannot take DTW
8:29	*	500	500	9.0	15.8	6.8	0.6	0.6	70.2	77	measurments below 21.5 ft.
8:32	*	500	500	10.0	16.0	6.8	0.6	0.6	>1000	52	
8:35	*	500	500	11.0	16.2	6.9	0.6	0.7	254.0	8	
8:38	*	200	200	11.5	16.2	6.9	0.6	0.5	398.0	22	
8:41	*	160	160	12.0	16.4	6.9	0.6	0.8	163.0	28	
8:46	*	160	160	12.8	16.7	6.9	0.6	0.6	77.3	52	
8:59	*	100	100	14.2	17.1	6.9	0.6	0.5	46.1	75	
											Sample ID: FD-PZ-2-050725
											Sample time: 09:00
											14.2 L Purged Total
											DTW in this piezometer historically does not stabilize. Opted for a volumetric purge.

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

HALEY ALDRICH		GROUNDWATER LEVEL MONITORING REPORT										Form FMG 5.1-01 Rev (06-09-09)
Project:		AB Brown		Client: SIGECO				File Number: 0129420-037				
Location:		Evansville, IN		Weather: --				Project Manager: Neal Kochis				
Reference:		Top of Casing		Units: ft				Field Representative: F. Reed, O. Alston				
Method:		Dip		Comments: --								
CCR Unit	Monitoring Well ID	Date	Time	Well Dry? (Y/N)	Depth to Water (ft)	Depth to top of pump	Well Bottom (Measured)	Well Bottom (From Table) (ft bgs)	Riser Elevation (ft)	Water Elevation (ft)	Remarks	Measured By
AshPond	CCR-BK-1R	--	--	--	--	60.68	--	64.00	483.39	--	Water level below top of pump at 60.68'	OA
	CCR-BK-2	--	--	--	--	25.09	--	25.50	430.60	--	Water level below top of pump at 25.09'	OA
	CCR-AP-1R	11/3/25	14:22	N	23.34	NM	--	39.87	467.57	444.23		OA
	CCR-AP-2IR	11/3/25	11:22	N	46.14	NM	--	64.78	465.79	419.65		OA
	CCR-AP-2R	--	--	--	--	49.82	--	56.03	468.13	--	Water level below top of pump at ~49.82	OA
	CCR-AP-3R	--	--	--	--	NM	--	47.00	449.41	--	Water level below top of pump	OA
	CCR-AP-3I	11/3/25	10:21	N	34.11	NM	--	77.50	450.02	415.91		OA
	CCR-AP-4R	11/3/25	14:04	N	38.93	NM	--	50.58	475.38	436.45		OA
	CCR-AP-5R	11/3/25	11:17	N	38.63	NM	--	47.14	453.14	414.51		OA
	CCR-AP-6	11/3/25	12:52	N	19.39	NM	--	41.67	461.36	441.97	No lock	OA
	CCR-AP-7R	11/3/25	12:47	N	36.64	NM	--	56.07	488.57	451.93		OA
	CCR-AP-8	11/3/25	13:09	N	4.54	NM	--	19.37	416.84	412.30		OA
	CCR-AP-9	11/3/25	14:41	N	9.97	NM	--	35.20	391.14	381.17		OA
	CCR-AP-10	--	14:08	--	--	40.66	--	46.04	474.01	--	Water level below top of pump at 40.66'	OA
	CCR-AP-11	11/3/25	13:40	N	14.28	N/A	--	25.27	376.72	362.44	No lock	OA
	FD-PZ-1	11/3/25	13:17	N	8.43	N/A	--	18.50	418.93	410.50		OA
	FD-PZ-2	11/3/25	13:02	N	5.04	N/A	--	34.00	423.37	418.33		OA
	FD-PZ-3S	11/3/25	13:23	N	10.46	N/A	--	19.60	420.09	409.63		OA
	FD-PZ-3D	11/3/25	13:25	N	14.30	N/A	--	34.00	420.30	406.00		OA
	FD-PZ-4	11/3/25	13:28	N	11.10	N/A	--	23.00	419.19	408.09		OA
	FD-PZ-5	11/3/25	13:15	N	27.79	N/A	--	--	439.66	411.87		OA
	FD-PZ-6	11/3/25	11:29	N	38.26	N/A	--	--	467.90	429.64	Guard pipe sand pack settled below well pad	OA
	HA-PP-1	11/3/25	14:59	N	2.63	N/A	--	3.50	381.82	379.19		OA
HA-PP-2	11/3/25	15:01	N	3.48	N/A	--	3.50	381.51	378.03		OA	
CMA-01	11/3/25	11:11	N	34.05	N/A	--	47.31	445.87	411.82		OA	
CMA-01I	11/3/25	11:12	N	34.74	N/A	--	72.45	446.25	411.51		OA	
CMA-02	11/3/25	11:05	N	29.25	N/A	--	50.85	436.63	407.38		OA	
CMA-02I	11/3/25	11:07	N	28.84	N/A	--	76.18	436.51	407.67		OA	
CMA-03	11/3/25	11:03	N	30.89	N/A	--	50.95	436.29	405.40		OA	

HALEY ALDRICH		GROUNDWATER LEVEL MONITORING REPORT										Form FMG 5.1-01 Rev (06-09-09)
Project:		AB Brown		Client: SIGECO				File Number: 0129420-037				
Location:		Evansville, IN		Weather: --				Project Manager: Neal Kochis				
Reference:		Top of Casing		Units: ft				Field Representative: F. Reed, O. Alston				
Method:		Dip		Comments: --								
CCR Unit	Monitoring Well ID	Date	Time	Well Dry? (Y/N)	Depth to Water (ft)	Depth to top of pump	Well Bottom (Measured)	Well Bottom (From Table) (ft bgs)	Riser Elevation (ft)	Water Elevation (ft)	Remarks	Measured By
Ash Pond	CMA-03I	11/3/25	11:02	N	31.01	N/A	--	76.65	436.16	405.15		OA
	CMA-04	11/3/25	10:59	N	26.33	N/A	--	46.98	435.89	409.56		OA
	CMA-04I	11/3/25	10:57	N	28.83	N/A	--	76.56	436.21	407.38		OA
	CMA-04BR	11/3/25	10:56	N	17.83	N/A	--	108.21	436.54	418.71		OA
	CMA-05	11/3/25	10:50	N	25.57	N/A	--	42.96	436.26	410.69		FR
	CMA-05I	11/3/25	10:52	N	25.98	N/A	--	67.16	436.52	410.54		OA
	CMA-06	11/3/25	14:51	N	11.53	N/A	--	33.94	392.08	380.55		OA
	CMA-06I	11/3/25	14:48	N	9.12	N/A	--	59.55	392.22	383.10		OA
	CMA-06BR	11/3/25	14:53	N	10.33	N/A	--	70.55	392.44	382.11		OA
	CMA-07I	11/3/25	13:49	N	21.10	N/A	--	47.42	419.95	398.85		OA
CMA-08I	11/3/25	13:52	N	41.99	N/A	--	52.85	443.25	401.26		OA	
Landfill	CCR-LF-1	11/3/25	11:49	N	8.94	NM	--	19.00	435.63	426.69		OA
	CCR-LF-2	11/3/25	11:37	N	28.51	NM	--	45.00	473.00	444.49		OA
	CCR-LF-3	11/3/25	11:42	N	31.39	NM	--	35.00	484.75	453.36		OA
	CCR-LF-4	11/3/25	12:41	N	47.97	NM	--	55.00	478.85	430.88		OA
	CCR-LF-5	11/3/25	12:18	N	22.11	NM	--	30.00	430.41	408.30		OA
	CCR-LF-6	11/3/25	12:11	N	7.84	NM	--	9.66	412.05	404.21		OA
Sed Pond	CCR-SP-1R	11/3/25	12:06	N	12.37	NM	--	20.00	403.94	391.57	Sediment pond water level	OA
	CCR-SP-2	11/3/25	12:01	N	14.98	NM	--	20.00	403.23	388.25	Just below 3'	OA
	CCR-SP-3	11/3/25	11:57	N	8.04	NM	--	20.00	403.57	395.53		OA



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/07/25

Sampling Data: Well Depth as Built: 64.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-BK-1R Well Depth Measured: NM ft Initial Depth To Water: NM ft Field Parameter Device: Horiba U-52
 Start time: 7:50 Depth To Top Of Screen: 54.0 ft Depth Of Pump Intake: 60.6 ft Tubing Present In Well: Yes No
 Finish Time: 9:45 Depth To Bottom Of Scree: 64.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
8:10	N/A	100	100	0.6	16.42	5.95	0.373	6.81	6.5	238	Water level was below the pump
8:15	N/A	100	100	1.3	16.51	6.1	0.337	6.49	0	234	
8:20	N/A	100	100	1.7	16.57	6.07	0.328	6.15	0	236	
8:25	N/A	100	100	2.6	16.63	6.04	0.326	5.66	0	239	
8:30	N/A	100	100	3	16.7	5.97	0.326	5.48	0	240	
8:35	N/A	100	100	3.4	16.75	6.05	0.326	5.15	0	240	
8:40	N/A	100	100	3.8	16.78	6.07	0.327	4.97	0	240	
8:45	N/A	100	100	4.3	16.77	6.05	0.327	4.7	0	242	
											Sample ID: CCR-BK-1R-110725
											Sample Time: 09:00
											Finished at 09:45

well volume = 3.14 (PI) x radius² x height of water column.
 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 11/06/25

Sampling Data: Well Depth as Built: 25.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-BK-2 Well Depth Measured: NM ft Initial Depth To Water: 24.88 ft Field Parameter Device: Horiba U-52
 Start time: 16:00 Depth To Top Of Screen: 15.5 ft Depth Of Pump Intake: 25.06 ft Tubing Present In Well: Yes No
 Finish Time: 17:25 Depth To Bottom Of Scree: 25.5 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
16:19	25.14	400	400	0.2	18.47	6.74	0.32	1.13	17.4	129	
16:24	25.15	100	100	1.3	18.42	6.58	0.319	1.18	14.5	123	
16:29	25.15	100	100	1.9	18.27	6.69	0.316	0.97	12.3	130	
16:34	25.15	100	100	2.3	18.2	6.72	0.314	0.87	8.9	128	
16:39	25.15	100	100	3	18.16	6.67	0.314	0.73	5.2	134	
16:44	25.15	100	100	3.5	18.02	6.71	0.313	0.68	3.6	133	
16:49	25.15	100	100	4	17.94	6.7	0.313	0.62	2.4	135	
16:54	25.15	100	100	4.5	17.9	6.69	0.313	0.61	1.7	140	
											Sample ID: CCR-BK-2-110625
											Sample Time: 16:55
											5 Liters Purged

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/06/25

Sampling Data: Well Depth as Built: 53.3 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-2R Well Depth Measured: NM ft Initial Depth To Water: 52.95 ft Field Parameter Device: Horiba U-52
 Start time: 9:26 Depth To Top Of Screen: 43.3 ft Depth Of Pump Intake: 54.0 ft Tubing Present In Well: Yes No
 Finish Time: 11:59 Depth To Bottom Of Scree: 53.3 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]		
9:40	53.05	100	100	0.8	17.02	6.45	2.56	2.58	24	212	
9:45	53.05	100	100	1.4	17.87	6.39	2.52	2.32	9.9	211	
9:50	53.05	100	100	1.8	18.08	6.36	2.61	2.27	4	211	
9:55	53.05	100	100	2.2	18.31	6.35	2.62	2.28	1.3	210	
10:00	53.05	100	100	2.7	18.4	6.32	2.7	2.13	4.1	211	
10:05	53.05	100	100	3.1	18.47	6.3	3.02	2.07	2.4	214	
10:10	53.05	100	100	3.5	18.52	6.32	3.44	1.93	0	215	
10:15	53.05	100	100	4	18.56	6.32	3.87	1.75	0	216	
10:20	53.05	100	100	4.6	18.58	6.33	4.27	1.58	0	215	
10:25	53.05	100	100	5.1	18.64	6.35	4.55	1.48	0	213	
10:30	53.05	100	100	5.5	18.72	6.37	4.97	1.38	0	212	
10:35	53.05	100	100	5.9	18.73	6.37	5.11	1.3	0	210	
10:40	53.05	100	100	6.3	18.78	6.38	5.3	1.2	0	209	
10:45	53.05	100	100	6.9	18.83	6.39	5.44	1.18	0	207	
10:50	53.05	100	100	7.2	18.79	6.48	5.59	1.12	0	206	
10:55	53.05	100	100	7.7	18.75	6.4	5.68	1.14	0	205	Sample ID: CCR-AP-2R-110625
11:00	53.05	100	100	8.2	18.76	6.4	5.8	1.08	0	204	Sample Time: 11:20
11:05	53.05	100	100	8.6	18.77	6.41	5.88	1.07	0	202	
11:10	53.05	100	100	9.1	18.85	6.42	5.96	1.03	0	201	Finished at 11:59



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/06/25

Sampling Data: Well Depth as Built: 93.6 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-2IR Well Depth Measured: NM ft Initial Depth To Water: 46.17 ft Field Parameter Device: Horiba U-52
 Start time: 7:13 Depth To Top Of Screen: 83.6 ft Depth Of Pump Intake: 89.0 ft Tubing Present In Well: Yes No
 Finish Time: 9:20 Depth To Bottom Of Scree: 93.6 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temp-erature (°C)	pH	Conduct-ivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
7:30	47.26	140	140	0.8	13.93	6.16	2.1	3.68	2.3	233	
7:35	48.76	120	120	1.5	14.93	6.27	1.8	2.19	3.6	230	
7:40	49.34	100	100	1.9	15.00	6.35	1.54	1.77	4.5	227	
7:45	50.3	100	100	2.3	14.89	6.45	1.38	1.52	0	223	
7:50	50.81	100	100	2.7	14.45	6.47	1.35	1.47	0	219	
7:55	51.46	100	100	3.1	14.36	5.49	1.31	1.40	0	216	
8:00	52.03	100	100	3.3	14.34	6.51	1.29	1.33	0	213	
8:05	52.54	100	100	3.5	14.38	6.52	1.28	1.27	0	211	
8:10	53.14	100	100	4	14.4	6.53	1.27	1.30	0	209	
8:15	53.69	100	100	4.3	14.41	6.54	1.26	1.27	0	207	The water level historically does not stabilize
											Sample ID: CCR-AP-2IR-110625
											Sample Time: 08:25
											Finished at 09:20

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. Owen Alston
SAMPLING DATE 11/06/25

Sampling Data: Well Depth as Built: 47.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-3R Well Depth Measured: NM ft Initial Depth To Water: NM ft Field Parameter Device: Horiba U-52
 Start time: 15:39 Depth To Top Of Screen: 37.0 ft Depth Of Pump Intake: 45.0 ft Tubing Present In Well: Yes No
 Finish Time: 17:23 Depth To Bottom Of Scree: 47.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
15:45	N/A	160	160	1.4	19.11	6.91	8.85	6.77	3.6	101	The water level was below the top of the pump
15:50	N/A	160	160	2.2	18.90	6.80	8.94	1.33	0	-4	
15:55	N/A	160	160	2.6	18.86	6.78	8.96	1.21	0	-18	
16:00	N/A	160	160	3.2	18.81	6.76	8.97	1.04	0	-33	
16:05	N/A	160	160	3.8	18.76	6.75	8.99	0.96	0	-42	
16:10	N/A	160	160	4.6	18.69	6.73	9	0.88	0	-48	
16:15	N/A	160	160	5.2	18.68	6.72	9.01	0.85	0	-52	
16:20	N/A	160	160	6.2	18.63	6.73	9.03	0.81	0	-54	Stable
											Sample ID: CCR-AP-3R-110625
											Sample Time: 16:30
											Finished at 17:23
											Field Filter Case/ Batch # 2023-S-4527 and
											320-98304-1 and 320-101116-1

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/06/25

Sampling Data: Well Depth as Built: 77.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-31 Well Depth Measured: NM ft Initial Depth To Water: 33.89 ft Field Parameter Device: HORIBA U-52
 Start time: 12:15 Depth To Top Of Screen: 67.5 ft Depth Of Pump Intake: 69.27 ft Tubing Present In Well: Yes No
 Finish Time: 15:30 Depth To Bottom Of Scree: 77.5 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-		NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:35	34.77	140	140	0.4	20.76	7.54	0.944	4.29	1.8	188	
12:40	35.36	100	100	1.3	20.65	7.51	0.909	1.88	45.2	183	
12:45	35.58	100	100	1.6	20.63	7.5	0.907	1.68	60.6	181	
12:50	35.83	100	100	1.8	20.63	7.5	0.906	1.35	70.7	173	
12:55	36.17	100	100	2.1	20.63	7.51	0.906	1.2	68.5	162	
13:00	36.4	100	100	2.4	20.62	7.52	0.906	1.18	62.9	151	
13:05	36.75	100	100	3	20.58	7.53	0.906	1.11	62.4	138	
13:10	37	100	100	3.1	20.52	7.53	0.906	1.03	58.5	125	
13:15	37.28	100	100	3.6	20.49	7.54	0.907	1.03	61.7	109	
13:20	37.49	100	100	4	20.43	7.51	0.906	1.01	58.7	94	
13:25	37.75	100	100	4.4	20.39	7.51	0.906	0.95	57.4	75	
13:30	38.03	100	100	4.8	20.38	7.52	0.906	0.97	59	62	
13:35	38.37	100	100	5.3	20.32	7.55	0.905	0.92	55.3	48	
13:40	38.4	100	100	5.4	20.32	7.54	0.904	0.94	50.9	40	
13:45	38.84	100	100	5.6	20.15	7.56	0.906	0.92	30.6	30	
13:50	39.14	100	100	6.1	19.94	7.52	0.906	0.93	20.8	22	
13:53	39.4	100	100	6.8	19.81	7.51	0.906	0.89	14.1	16	
13:56	39.64	100	100	7.1	19.83	7.47	0.906	0.88	11.5	11	
13:59	39.78	100	100	7.3	19.78	7.46	0.906	0.85	7.7	5	

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/06/25

Sampling Data: Well Depth as Built: 77.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-3I Well Depth Measured: NM ft Initial Depth To Water: 33.89 ft Field Parameter Device: HORIBA U-52
 Start time: 12:15 Depth To Top Of Screen: 67.5 ft Depth Of Pump Intake: 69.27 ft Tubing Present In Well: Yes No
 Finish Time: 15:30 Depth To Bottom Of Scree: 77.5 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
14:02	40	100	100	7.6	19.71	7.52	0.906	0.84	5.5	1	
14:05	40.18	100	100	8.1	19.66	7.52	0.907	0.89	3.9	-3	
14:08	40.48	100	100	8.3	19.65	7.51	0.907	0.84	2.2	-8	
14:11	40.72	100	100	8.7	19.61	7.51	0.907	0.86	1	-12	
14:14	41	100	100	9.2	19.63	7.46	0.906	0.89	0	-19	
14:17	41.12	100	100	9.4	19.58	7.5	0.907	0.84	0	-21	
14:20	41.26	100	100	9.7	19.57	7.5	0.907	0.82	0	-24	
											Sample ID: CCR-AP-3I-110625
											Sample Time: 14:30
											Finished at 15:30
											Field Filter Case/ Batch # 2023-S-4527 and 320-98304-1 and 320-101116-1

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 11/05/24

Sampling Data: Well Depth as Built: 45.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-5R Well Depth Measured: NM ft Initial Depth To Water: 38.62 ft Field Parameter Device: Horiba U-52
 Start time: 7:29 Depth To Top Of Screen: 35.0 ft Depth Of Pump Intake: NM ft Tubing Present In Well: Yes No
 Finish Time: 9:25 Depth To Bottom Of Scree: 45.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
7:35	38.70	140	140	0.5	16.62	5.50	7.54	2.51	23.3	276	
7:40	38.70	140	140	1.1	16.92	5.90	7.55	1.86	26.7	265	
7:45	38.70	140	140	1.6	17.17	6.15	7.53	1.57	16.4	254	
7:50	38.70	140	140	2.2	17.32	6.34	7.52	1.36	5	241	
7:55	38.70	140	140	3	17.40	6.44	7.5	1.28	2.9	232	
8:00	38.70	140	140	3.7	17.43	6.47	7.5	1.24	1.8	226	
8:05	38.70	140	140	4.4	17.48	6.51	7.49	1.18	0.8	217	
8:10	38.70	180	180	5.1	17.51	6.54	7.48	1.15	0.3	211	
8:15	38.70	180	180	5.7	17.6	6.55	7.48	1.11	0	206	
8:20	38.70	180	180	6.2	17.61	6.55	7.467	1.08	0	202	
											Sample ID: CCR-AP-5R-110525
											Sample Time: 08:30
											MS/MSD
											Finished at 09:25

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/05/25

Sampling Data: Well Depth as Built: 39.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-6 Well Depth Measured: NM ft Initial Depth To Water: 19:22 ft Field Parameter Device Horiba U-52
 Start time: 12:00 Depth To Top Of Screen: 29.0 ft Depth Of Pump Intake: 38.6 ft Tubing Present In Well: Yes No
 Finish Time: 14:02 Depth To Bottom Of Scree 39.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:15	20.03	120	120	1	19.31	6.27	3.58	1.19	74.9	130	
12:20	20.03	120	120	1.5	18.83	6.20	3.63	0.95	113	120	
12:25	20.03	120	120	2	18.15	6.16	3.67	1.64	230	108	
12:30	20.03	130	130	2.5	18.3	6.16	3.66	1.64	260	97	
12:35	20.27	130	130	3.1	17.81	6.15	3.69	1.83	163	91	
12:40	20.27	140	140	3.8	17.84	6.15	3.68	1.73	102	86	
12:45	20.27	140	140	4.3	17.76	6.15	3.68	1.66	101	82	
12:50	20.27	140	140	4.8	17.65	6.13	3.67	1.56	43.5	80	
12:55	20.27	140	140	5.6	17.56	6.13	3.67	1.53	24.7	78	
13:00	20.27	140	140	6.3	17.55	6.13	3.66	1.46	17	77	
13:05	20.27	140	140	6.9	17.59	6.12	3.66	1.38	13.6	77	
13:10	20.27	140	140	7.4	17.55	6.11	3.67	1.34	11	77	
13:15	20.27	140	140	8	17.61	6.15	3.67	1.27	7.5	77	
13:20	20.27	140	140	8.7	17.58	6.13	3.68	1.22	8.8	76	
13:25	20.27	140	140	---	17.43	6.12	3.73	1.18	9.6	76	
											Sample ID: CCR-AP-6-110525
											Sample Time: 13:30
											Finished at 14:02

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/05/25

Sampling Data: Well Depth as Built: 16.5 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-8 Well Depth Measured: NM ft Initial Depth To Water: 4.36 ft Field Parameter Device Horiba U-52
 Start time: 9:45 Depth To Top Of Screen: 6.2 ft Depth Of Pump Intake: 12.83 ft Tubing Present In Well: Yes No
 Finish Time: 12:00 Depth To Bottom Of Scree 16.2 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
9:55	4.80	4.80	160	1	19.44	6.67	2.71	1.96	0.6	195	
10:00	4.80	4.80	160	1.8	19.61	6.43	2.59	1.91	0.4	199	
10:05	4.80	4.80	160	2.2	19.74	6.38	2.56	1.56	0	198	
10:10	4.80	4.80	160	2.9	19.78	6.34	2.55	1.37	0	195	
10:15	4.80	4.80	160	3.5	19.8	6.33	2.54	1.25	0	183	
10:20	4.80	4.80	160	4.1	19.88	6.33	2.54	1.17	0	161	
10:25	4.80	4.80	160	4.7	19.97	6.33	2.54	1.1	0	125	
10:30	4.80	4.80	160	5.3	20	6.32	2.54	1.04	0	99	
10:35	4.80	4.80	160	6.1	20.11	6.32	2.54	0.99	0	75	
10:40	4.80	4.80	160	6.6	20.11	6.29	2.54	0.97	0	60	
10:45	4.80	4.80	160	7.2	20.2	6.3	2.54	0.94	0	46	
10:50	4.80	4.80	160	7.6	20.25	6.32	2.54	0.85	0	29	
10:55	4.80	4.80	160	8.1	20.35	6.31	2.53	0.84	0	18	
11:00	4.80	4.80	160	8.6	20.41	6.3	2.53	0.83	0	8	
11:05	4.80	4.80	160	9.3	20.51	6.3	2.53	0.83	0	-1	
11:10	4.80	4.80	160	10	20.54	6.3	2.52	0.81	0	-10	
11:15	4.80	4.80	160	10.6	20.53	6.32	2.52	0.81	0	-17	Sample ID: CCR-AP-8-110525
11:20	4.80	4.80	160	11.1	20.61	6.31	2.52	0.81	0	-20	Sample Time: 11:25
											Finished at 11:45

well volume = 3.14 (Pi) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. O. Alston
SAMPLING DATE 11/07/25

Sampling Data: Well Depth as Built: 43.3 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-10 Well Depth Measured: NM ft Initial Depth To Water: 40.93 ft Field Parameter Device Horiba U-52
 Start time: 10:07 Depth To Top Of Screen: 33.2 ft Depth Of Pump Intake: 42.8 ft Tubing Present In Well: Yes No
 Finish Time: 12:15 Depth To Bottom Of Scree 43.2 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]	-		NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
10:35	41.22	100	100	0.2	17.46	6.5	4.54	2.67	407	235	
10:40	41.33	100	100	2.5	17.52	6.49	4.55	2.69	1000	231	
10:45	41.4	100	100	3	17.44	6.46	4.56	2.63	902	226	
10:50	41.46	100	100	3.2	17.4	6.45	4.55	2.59	694	221	
10:55	41.53	100	100	3.8	17.38	6.44	4.55	2.53	541	218	
11:00	41.58	100	100	4.1	17.4	6.43	4.55	2.49	458	216	
11:05	41.39	100	100	4.4	17.43	6.42	4.54	2.31	399	213	
11:10	41.39	100	100	4.8	17.44	6.42	4.55	2.39	313	211	
11:15	41.39	100	100	5.1	17.53	6.43	4.55	2.24	274	209	
11:20	41.39	100	100	5.4	17.57	6.42	4.55	2.13	212	207	
11:25	41.39	100	100	5.8	17.68	6.42	4.56	2.09	188	206	
11:30	41.39	100	100	6	17.73	6.43	4.56	1.95	160	205	
11:35	41.39	100	100	6.3	17.88	6.44	4.56	1.96	134	203	
11:40	41.39	100	100	6.5	18	6.44	4.56	1.84	116	201	
11:45	41.39	100	100	6.8	18.07	6.44	4.56	1.87	102	199	
11:50	41.39	100	100	7.2	18.03	6.43	4.55	1.84	94.4	197	
11:55	41.39	100	100	7.6	18.01	6.43	4.53	1.8	87.6	195	
12:00	41.39	100	100	8	17.78	6.43	4.53	1.75	78.1	192	
12:05	41.39	100	100	8.5	17.75	6.42	4.52	1.79	73.1	191	

well volume = 3.14 (PI) x radius² x height of water column.

2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min



LOW FLOW SAMPLING FORM

PROJECT A.B. Brown Generating Station
LOCATION Evansville, Indiana
CLIENT Southern Indiana Gas and Electric Company
CONTRACTOR N/A

H&A FILE NO. 129420
PROJECT MGR. Neal Kochis
FIELD REP. F. Reed
SAMPLING DATE 11/05/25

Sampling Data: Well Depth as Built: 26.0 ft Well Diameter: 2.0 in Purging Device: Bladder
 Well ID: CCR-AP-11 Well Depth Measured: NM ft Initial Depth To Water: 14.26 ft Field Parameter Device Horiba U-52
 Start time: 12:00 Depth To Top Of Screen: 16.0 ft Depth Of Pump Intake: 21.0 ft Tubing Present In Well: Yes No
 Finish Time: 13:30 Depth To Bottom Of Scree 26.0 ft Measuring Point: Top of Casing (TOC) Tubing Type: Polyethylene

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (liters)	Temperature (°C)	pH	Conductivity (ms/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
Stabilized within →		[100 mL/min] to [500 mL/min]		-	NA	[+/- 0.1]	[+/- 3%]	[+/- 10%]	[+/- 10%]	[+/- 10]	
12:17	14.6	320	320	1	19.08	6.94	1.11	0.91	3.6	140	
12:20	14.64	320	320	2	19.13	0.1	1.11	0.70	8.5	143	
12:23	14.66	320	320	2.8	19.21	6.89	1.12	0.64	5.8	145	
12:26	14.7	320	320	3.6	19.23	6.88	1.35	0.49	3.3	147	
12:29	14.72	320	320	4.4	19.24	6.88	1.37	0.53	2.3	148	
12:32	14.75	320	320	5.5	19.25	6.88	1.39	0.52	2.9	149	
12:35	14.74	320	320	6.3	19.29	0.91	1.41	0.47	3.8	148	
12:38	14.75	320	320	7.2	19.3	6.91	1.43	0.48	4.1	148	
12:41	14.77	320	320	8.1	19.29	6.91	1.44	0.45	4	149	
12:44	14.78	320	320	9	19.3	6.93	1.47	0.42	3.5	148	
12:47	14.78	320	320	10	19.28	6.93	1.48	0.42	3.4	149	
											Sample ID: CCR-AP-11-110525
											Sample Time: 12:50
											Duplicate ID: DUP-3-110525
											Duplicate Time: 12:00

well volume = 3.14 (PI) x radius² x height of water column. 2 in well = 0.163 gal/ft, 3 in = 0.367 gal/ft 4 in = 0.653 gal/ft, 6 in = 1.469 gal/ft, 1 cu. ft. = 7.48 gal, 1 gal = 3.785 L, 1L = 0.264 gal, 0.5L/min = 0.132 gal/min

APPENDIX C
Laboratory Analytical Reports

ANALYTICAL REPORT

PREPARED FOR

Attn: Todd Plating
Haley & Aldrich, Inc.
400 Augusta Street
Suite 100
Greenville, South Carolina 29601

Generated 5/31/2025 7:39:50 AM

JOB DESCRIPTION

AB Brown Generating Station
Geochemistry

JOB NUMBER

180-190267-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Generated
5/31/2025 7:39:50 AM

Authorized for release by
Andy Johnson, Senior Project Manager
Andy.Johnson@et.eurofinsus.com
(615)818-9567



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	18
QC Sample Results	46
QC Association Summary	50
Chain of Custody	53
Receipt Checklists	65

Case Narrative

Client: Haley & Aldrich, Inc.
Project: AB Brown Generating Station

Job ID: 180-190267-1

Job ID: 180-190267-1

Eurofins Pittsburgh

Job Narrative 180-190267-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/10/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.1°C, 1.7°C, 1.9°C, 2.1°C, 2.8°C and 3.3°C.

Receipt Exceptions

The container for the metals does not have a red Nitric Acid label on it: however the ph is <2. CCR-LF-4-050825 (180-190267-38)

A Chain-of-Custody (COC) was not received with these samples: CCR-AP-6-050625 (180-190267-1), CCR-AP-7R-050625 (180-190267-2), CCR-AP-1R-050625 (180-190267-3), CCR-AP-10-050625 (180-190267-4), CCR-AP-4R-050625 (180-190267-5), CCR-AP-11-050625 (180-190267-6), FD-PZ-2-050725 (180-190267-7), FD-PZ-1-050725 (180-190267-8), MH-1-050725 (180-190267-9), MH-2-050725 (180-190267-10), CCR-LF-1-050725 (180-190267-11), CCR-LF-2-050825 (180-190267-12), CCR-SP-1R-050825 (180-190267-13), CCR-SP-2-050825 (180-190267-14), CCR-SP-3-050825 (180-190267-15), CCR-AP-3I-050625 (180-190267-28), CCR-AP-3R-050625 (180-190267-29), CCR-AP-5R-050625 (180-190267-30), CCR-AP-21R-050625 (180-190267-31), CCR-AP-2R-050625 (180-190267-32), CCR-AP-8-050625 (180-190267-33), CCR-BK-1R-050725 (180-190267-34), CCR-BK-2-050725 (180-190267-35), CCR-AP-9R-050725 (180-190267-36), CCR-LF-3-050725 (180-190267-37), CCR-LF-4-050825 (180-190267-38), CCR-LF-5-050825 (180-190267-39) and CCR-LF-6-050825 (180-190267-40).

The missing cooler, including the COC, for the following samples was received on 5/10/25. CCR-AP-3I-050625 (180-190267-28), CCR-AP-3R-050625 (180-190267-29), CCR-AP-5R-050625 (180-190267-30), CCR-AP-21R-050625 (180-190267-31), CCR-AP-2R-050625 (180-190267-32), CCR-AP-8-050625 (180-190267-33), CCR-BK-1R-050725 (180-190267-34), CCR-BK-2-050725 (180-190267-35), CCR-AP-9R-050725 (180-190267-36), CCR-LF-3-050725 (180-190267-37), CCR-LF-4-050825 (180-190267-38), CCR-LF-5-050825 (180-190267-39) and CCR-LF-6-050825 (180-190267-40)

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Pittsburgh

Definitions/Glossary

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00690	06-28-25
California	State	2891	04-30-24 *
Connecticut	State	PH-0820	09-30-26
Florida	NELAP	E871008	06-30-25
Georgia	State	PA 02-00416	04-30-26
Illinois	NELAP	200005	07-31-25
Kansas	NELAP	E-10350	01-31-26
Kentucky (UST)	State	162013	04-30-26
Kentucky (WW)	State	KY98043	12-31-25
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-25
New Hampshire	NELAP	2030	04-04-26
New Jersey	NELAP	PA005	06-30-25
New York	NELAP	11182	03-31-26
North Carolina (WW/SW)	State	434	12-31-25
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-26
Pennsylvania	NELAP	02-00416	04-30-26
Rhode Island	State	LAO00375	12-30-25
South Carolina	State	89014	04-30-25 *
Texas	NELAP	T104704528	03-31-26
US Fish & Wildlife	US Federal Programs	A21930	04-30-26
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	05-31-25
Virginia	NELAP	460189	09-14-25
West Virginia DEP	State	142	01-31-26
Wisconsin	State	998027800	08-31-25

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-25
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-25
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-25
Oregon	NELAP	PA200001	09-11-25
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-25
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-190267-1	CCR-AP-6-050625	Water	05/06/25 09:20	05/10/25 09:40
180-190267-2	CCR-AP-7R-050625	Water	05/06/25 11:35	05/10/25 09:40
180-190267-3	CCR-AP-1R-050625	Water	05/06/25 13:15	05/10/25 09:40
180-190267-4	CCR-AP-10-050625	Water	05/06/25 15:05	05/10/25 09:40
180-190267-5	CCR-AP-4R-050625	Water	05/06/25 17:00	05/10/25 09:40
180-190267-6	CCR-AP-11-050625	Water	05/06/25 19:05	05/10/25 09:40
180-190267-7	FD-PZ-2-050725	Water	05/07/25 09:00	05/10/25 09:40
180-190267-8	FD-PZ-1-050725	Water	05/07/25 10:55	05/10/25 09:40
180-190267-9	MH-1-050725	Water	05/07/25 12:00	05/10/25 09:40
180-190267-10	MH-2-050725	Water	05/07/25 13:15	05/10/25 09:40
180-190267-11	CCR-LF-1-050725	Water	05/07/25 14:45	05/10/25 09:40
180-190267-12	CCR-LF-2-050825	Water	05/08/25 08:50	05/10/25 09:40
180-190267-13	CCR-SP-1R-050825	Water	05/08/25 10:35	05/10/25 09:40
180-190267-14	CCR-SP-2-050825	Water	05/08/25 12:05	05/10/25 09:40
180-190267-15	CCR-SP-3-050825	Water	05/08/25 13:50	05/10/25 09:40
180-190267-28	CCR-AP-3I-050625	Water	05/06/25 09:45	05/10/25 09:40
180-190267-29	CCR-AP-3R-050625	Water	05/06/25 11:35	05/10/25 09:40
180-190267-30	CCR-AP-5R-050625	Water	05/06/25 13:05	05/10/25 09:40
180-190267-31	CCR-AP-21R-050625	Water	05/06/25 15:10	05/10/25 09:40
180-190267-32	CCR-AP-2R-050625	Water	05/06/25 17:15	05/10/25 09:40
180-190267-33	CCR-AP-8-050625	Water	05/06/25 18:55	05/10/25 09:40
180-190267-34	CCR-BK-1R-050725	Water	05/07/25 09:20	05/10/25 09:40
180-190267-35	CCR-BK-2-050725	Water	05/07/25 11:50	05/10/25 09:40
180-190267-36	CCR-AP-9R-050725	Water	05/07/25 13:25	05/10/25 09:40
180-190267-37	CCR-LF-3-050725	Water	05/07/25 15:10	05/10/25 09:40
180-190267-38	CCR-LF-4-050825	Water	05/08/25 09:00	05/10/25 09:40
180-190267-39	CCR-LF-5-050825	Water	05/08/25 10:35	05/10/25 09:40
180-190267-40	CCR-LF-6-050825	Water	05/08/25 11:50	05/10/25 09:40

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	ELLE
SM2320 B	Alkalinity, Total	SM18	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE

Protocol References:

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-6-050625

Lab Sample ID: 180-190267-1

Date Collected: 05/06/25 09:20

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:32	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		5			650603	05/29/25 23:35	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 11:17	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-7R-050625

Lab Sample ID: 180-190267-2

Date Collected: 05/06/25 11:35

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/30/25 00:01	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 11:28	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-1R-050625

Lab Sample ID: 180-190267-3

Date Collected: 05/06/25 13:15

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:56	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		5			650603	05/29/25 23:59	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 11:34	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-10-050625

Lab Sample ID: 180-190267-4

Date Collected: 05/06/25 15:05

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/30/25 00:16	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		5			650603	05/30/25 00:18	LHF4	ELLE
Instrument ID: E07 - 27813										

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-10-050625

Lab Sample ID: 180-190267-4

Date Collected: 05/06/25 15:05

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 11:41	ELS	EET PIT

Client Sample ID: CCR-AP-4R-050625

Lab Sample ID: 180-190267-5

Date Collected: 05/06/25 17:00

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:01	I9IN	ELLE
		Instrument ID: E11								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 11:47	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: CCR-AP-11-050625

Lab Sample ID: 180-190267-6

Date Collected: 05/06/25 19:05

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			649979	05/28/25 17:29	I9IN	ELLE
		Instrument ID: E08 - 30647								
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:04	I9IN	ELLE
		Instrument ID: E11								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 11:53	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: FD-PZ-2-050725

Lab Sample ID: 180-190267-7

Date Collected: 05/07/25 09:00

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:30	LHF4	ELLE
		Instrument ID: E07 - 27813								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:09	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: FD-PZ-1-050725

Lab Sample ID: 180-190267-8

Date Collected: 05/07/25 10:55

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:49	LHF4	ELLE
		Instrument ID: E07 - 27813								

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: FD-PZ-1-050725

Lab Sample ID: 180-190267-8

Date Collected: 05/07/25 10:55

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		10			650603	05/29/25 23:52	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:22	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: MH-1-050725

Lab Sample ID: 180-190267-9

Date Collected: 05/07/25 12:00

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/30/25 00:03	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		10			650603	05/30/25 00:05	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:27	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: MH-2-050725

Lab Sample ID: 180-190267-10

Date Collected: 05/07/25 13:15

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/30/25 00:20	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		10			650603	05/30/25 00:23	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:33	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-LF-1-050725

Lab Sample ID: 180-190267-11

Date Collected: 05/07/25 14:45

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:47	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:38	ELS	EET PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-2-050825
Date Collected: 05/08/25 08:50
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			649979	05/28/25 17:18	I9IN	ELLE
Instrument ID: E08 - 30647										
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		100			650000	05/28/25 21:39	I9IN	ELLE
Instrument ID: E11										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:44	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-SP-1R-050825
Date Collected: 05/08/25 10:35
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:14	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		5			650603	05/29/25 23:17	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:51	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-SP-2-050825
Date Collected: 05/08/25 12:05
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:28	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 12:58	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-SP-3-050825
Date Collected: 05/08/25 13:50
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:54	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 13:05	ELS	EET PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-3I-050625
Date Collected: 05/06/25 09:45
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:02	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		5			650603	05/29/25 23:04	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 13:32	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-3R-050625
Date Collected: 05/06/25 11:35
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:24	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		20			650603	05/29/25 23:26	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 13:46	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-5R-050625
Date Collected: 05/06/25 13:05
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 22:57	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		10			650603	05/29/25 23:00	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 13:52	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-21R-050625
Date Collected: 05/06/25 15:10
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 22:49	LHF4	ELLE
Instrument ID: E07 - 27813										

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-21R-050625
Date Collected: 05/06/25 15:10
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 13:57	ELS	EET PIT

Client Sample ID: CCR-AP-2R-050625
Date Collected: 05/06/25 17:15
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:19	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		5			650603	05/29/25 23:22	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:03	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-AP-8-050625
Date Collected: 05/06/25 18:55
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/29/25 23:45	LHF4	ELLE
Instrument ID: E07 - 27813										
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		10			651100	05/30/25 17:48	I9IN	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:10	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-BK-1R-050725
Date Collected: 05/07/25 09:20
Date Received: 05/10/25 09:40

Lab Sample ID: 180-190267-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			649979	05/28/25 17:33	I9IN	ELLE
Instrument ID: E08 - 30647										
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:09	I9IN	ELLE
Instrument ID: E11										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:25	ELS	EET PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-BK-2-050725

Lab Sample ID: 180-190267-35

Date Collected: 05/07/25 11:50

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/30/25 00:25	LHF4	ELLE
		Instrument ID: E07 - 27813								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:36	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: CCR-AP-9R-050725

Lab Sample ID: 180-190267-36

Date Collected: 05/07/25 13:25

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:12	I9IN	ELLE
		Instrument ID: E11								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:41	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: CCR-LF-3-050725

Lab Sample ID: 180-190267-37

Date Collected: 05/07/25 15:10

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			649979	05/28/25 17:31	I9IN	ELLE
		Instrument ID: E08 - 30647								
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:07	I9IN	ELLE
		Instrument ID: E11								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:47	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: CCR-LF-4-050825

Lab Sample ID: 180-190267-38

Date Collected: 05/08/25 09:00

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:18	I9IN	ELLE
		Instrument ID: E11								
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:53	ELS	EET PIT
		Instrument ID: PCTITRATOR								

Lab Chronicle

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-5-050825

Lab Sample ID: 180-190267-39

Date Collected: 05/08/25 10:35

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645268	05/26/25 20:30	UAMX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650000	05/28/25 22:15	I9IN	ELLE
Instrument ID: E11										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 14:59	ELS	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: CCR-LF-6-050825

Lab Sample ID: 180-190267-40

Date Collected: 05/08/25 11:50

Matrix: Water

Date Received: 05/10/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	645274	05/29/25 07:20	X3ZX	ELLE
Total Recoverable	Analysis	EPA 6020B		1			650603	05/30/25 00:27	LHF4	ELLE
Instrument ID: E07 - 27813										
Total/NA	Analysis	SM2320 B		1			495979	05/15/25 15:06	ELS	EET PIT
Instrument ID: PCTITRATOR										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Analyst References:

Lab: EET PIT

Batch Type: Analysis

ELS = Edwin Shireman

Lab: ELLE

Batch Type: Prep

UAMX = Annamaria Kuhns

X3ZX = Skyler Ruf

Batch Type: Analysis

I9IN = Miles Yiengst

LHF4 = Diamond Boyer

Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-6-050625

Lab Sample ID: 180-190267-1

Date Collected: 05/06/25 09:20

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	79	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:32	1
Potassium	1.3		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:32	1
Sodium	660	B ^2	1.0	0.45	mg/L		05/29/25 07:20	05/29/25 23:35	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	260		5.0	5.0	mg/L			05/15/25 11:17	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-7R-050625

Lab Sample ID: 180-190267-2

Date Collected: 05/06/25 11:35

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	36	^2	0.050	0.016	mg/L		05/29/25 07:20	05/30/25 00:01	1
Potassium	0.33		0.20	0.065	mg/L		05/29/25 07:20	05/30/25 00:01	1
Sodium	65	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/30/25 00:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	210		5.0	5.0	mg/L			05/15/25 11:28	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-1R-050625

Lab Sample ID: 180-190267-3

Date Collected: 05/06/25 13:15

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	18	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:56	1
Potassium	0.25		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:56	1
Sodium	240	B ^2	1.0	0.45	mg/L		05/29/25 07:20	05/29/25 23:59	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	580		5.0	5.0	mg/L			05/15/25 11:34	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-10-050625

Lab Sample ID: 180-190267-4

Date Collected: 05/06/25 15:05

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	85		0.050	0.016	mg/L		05/29/25 07:20	05/30/25 00:16	1
Potassium	0.69		0.20	0.065	mg/L		05/29/25 07:20	05/30/25 00:16	1
Sodium	640	B ^2	1.0	0.45	mg/L		05/29/25 07:20	05/30/25 00:18	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	270		5.0	5.0	mg/L			05/15/25 11:41	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-4R-050625

Lab Sample ID: 180-190267-5

Date Collected: 05/06/25 17:00

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	56		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 22:01	1
Potassium	0.34		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 22:01	1
Sodium	18		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	500		5.0	5.0	mg/L			05/15/25 11:47	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-11-050625

Lab Sample ID: 180-190267-6

Date Collected: 05/06/25 19:05

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	44		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 17:29	1
Potassium	1.5		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 17:29	1
Sodium	99		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	430		5.0	5.0	mg/L			05/15/25 11:53	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: FD-PZ-2-050725

Lab Sample ID: 180-190267-7

Date Collected: 05/07/25 09:00

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	28	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:30	1
Potassium	2.8		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:30	1
Sodium	38	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/29/25 23:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	470		5.0	5.0	mg/L			05/15/25 12:09	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: FD-PZ-1-050725

Lab Sample ID: 180-190267-8

Date Collected: 05/07/25 10:55

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	61	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:49	1
Potassium	18		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:49	1
Sodium	1400	B ^2	2.0	0.90	mg/L		05/29/25 07:20	05/29/25 23:52	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	200		5.0	5.0	mg/L			05/15/25 12:22	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: MH-1-050725

Lab Sample ID: 180-190267-9

Date Collected: 05/07/25 12:00

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	48	^2	0.050	0.016	mg/L		05/29/25 07:20	05/30/25 00:03	1
Potassium	23		0.20	0.065	mg/L		05/29/25 07:20	05/30/25 00:03	1
Sodium	1400	B ^2	2.0	0.90	mg/L		05/29/25 07:20	05/30/25 00:05	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	200		5.0	5.0	mg/L			05/15/25 12:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Client Sample ID: MH-2-050725

Lab Sample ID: 180-190267-10

Date Collected: 05/07/25 13:15

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	47		0.050	0.016	mg/L		05/29/25 07:20	05/30/25 00:20	1
Potassium	21		0.20	0.065	mg/L		05/29/25 07:20	05/30/25 00:20	1
Sodium	1400	B ^2	2.0	0.90	mg/L		05/29/25 07:20	05/30/25 00:23	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	180		5.0	5.0	mg/L			05/15/25 12:33	1

Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-1-050725

Lab Sample ID: 180-190267-11

Date Collected: 05/07/25 14:45

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	150	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:47	1
Potassium	0.43		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:47	1
Sodium	30	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/29/25 23:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	330		5.0	5.0	mg/L			05/15/25 12:38	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-2-050825

Lab Sample ID: 180-190267-12

Date Collected: 05/08/25 08:50

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	290		5.0	1.6	mg/L		05/26/25 20:30	05/28/25 21:39	100
Potassium	6.0		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 17:18	1
Sodium	7000		20	9.0	mg/L		05/26/25 20:30	05/28/25 21:39	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	510		5.0	5.0	mg/L			05/15/25 12:44	1

- 1
- 2
- 3
- 4
- 5
- 6
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- 10
- 11
- 12
- 13

Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-SP-1R-050825

Lab Sample ID: 180-190267-13

Date Collected: 05/08/25 10:35

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	150	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:14	1
Potassium	0.67		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:14	1
Sodium	350	B ^2	1.0	0.45	mg/L		05/29/25 07:20	05/29/25 23:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	390		5.0	5.0	mg/L			05/15/25 12:51	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-SP-2-050825

Lab Sample ID: 180-190267-14

Date Collected: 05/08/25 12:05

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	100	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:28	1
Potassium	0.47		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:28	1
Sodium	43	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/29/25 23:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	550		5.0	5.0	mg/L			05/15/25 12:58	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-SP-3-050825

Lab Sample ID: 180-190267-15

Date Collected: 05/08/25 13:50

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	40	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:54	1
Potassium	0.22		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:54	1
Sodium	11	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/29/25 23:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	380		5.0	5.0	mg/L			05/15/25 13:05	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-3I-050625

Lab Sample ID: 180-190267-28

Date Collected: 05/06/25 09:45

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.9		0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:02	1
Potassium	1.7		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:02	1
Sodium	310	B ^2	1.0	0.45	mg/L		05/29/25 07:20	05/29/25 23:04	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	480		5.0	5.0	mg/L			05/15/25 13:32	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-3R-050625

Lab Sample ID: 180-190267-29

Date Collected: 05/06/25 11:35

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	37	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:24	1
Potassium	24		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:24	1
Sodium	2400	B ^2	4.0	1.8	mg/L		05/29/25 07:20	05/29/25 23:26	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	210		5.0	5.0	mg/L			05/15/25 13:46	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-5R-050625

Lab Sample ID: 180-190267-30

Date Collected: 05/06/25 13:05

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	64		0.050	0.016	mg/L		05/29/25 07:20	05/29/25 22:57	1
Potassium	7.3		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 22:57	1
Sodium	1500	B ^2	2.0	0.90	mg/L		05/29/25 07:20	05/29/25 23:00	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	91		5.0	5.0	mg/L			05/15/25 13:52	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-21R-050625

Lab Sample ID: 180-190267-31

Date Collected: 05/06/25 15:10

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	120		0.050	0.016	mg/L		05/29/25 07:20	05/29/25 22:49	1
Potassium	1.2		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 22:49	1
Sodium	110	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/29/25 22:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	460		5.0	5.0	mg/L			05/15/25 13:57	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-2R-050625

Lab Sample ID: 180-190267-32

Date Collected: 05/06/25 17:15

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	100	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:19	1
Potassium	12		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:19	1
Sodium	730	B ^2	1.0	0.45	mg/L		05/29/25 07:20	05/29/25 23:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	320		5.0	5.0	mg/L			05/15/25 14:03	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-8-050625

Lab Sample ID: 180-190267-33

Date Collected: 05/06/25 18:55

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	150	^2	0.050	0.016	mg/L		05/29/25 07:20	05/29/25 23:45	1
Potassium	0.91		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 23:45	1
Sodium	210		2.0	0.90	mg/L		05/29/25 07:20	05/30/25 17:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	470		5.0	5.0	mg/L			05/15/25 14:10	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-BK-1R-050725

Lab Sample ID: 180-190267-34

Date Collected: 05/07/25 09:20

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	26		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 17:33	1
Potassium	0.65		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 17:33	1
Sodium	11		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	210		5.0	5.0	mg/L			05/15/25 14:25	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-BK-2-050725

Lab Sample ID: 180-190267-35

Date Collected: 05/07/25 11:50

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	21		0.050	0.016	mg/L		05/29/25 07:20	05/30/25 00:25	1
Potassium	0.38		0.20	0.065	mg/L		05/29/25 07:20	05/30/25 00:25	1
Sodium	11	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/30/25 00:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	190		5.0	5.0	mg/L			05/15/25 14:36	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-AP-9R-050725

Lab Sample ID: 180-190267-36

Date Collected: 05/07/25 13:25

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	96		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 22:12	1
Potassium	1.3		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 22:12	1
Sodium	2400		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	350		5.0	5.0	mg/L			05/15/25 14:41	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-3-050725

Lab Sample ID: 180-190267-37

Date Collected: 05/07/25 15:10

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	110		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 17:31	1
Potassium	0.50		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 17:31	1
Sodium	59		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	250		5.0	5.0	mg/L			05/15/25 14:47	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-4-050825

Lab Sample ID: 180-190267-38

Date Collected: 05/08/25 09:00

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	330		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 22:18	1
Potassium	5.3		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 22:18	1
Sodium	3500		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	250		5.0	5.0	mg/L			05/15/25 14:53	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-5-050825

Lab Sample ID: 180-190267-39

Date Collected: 05/08/25 10:35

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	200		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 22:15	1
Potassium	1.1		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 22:15	1
Sodium	610		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 22:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	460		5.0	5.0	mg/L			05/15/25 14:59	1



Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Client Sample ID: CCR-LF-6-050825

Lab Sample ID: 180-190267-40

Date Collected: 05/08/25 11:50

Matrix: Water

Date Received: 05/10/25 09:40

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	65		0.050	0.016	mg/L		05/29/25 07:20	05/30/25 00:27	1
Potassium	1.4		0.20	0.065	mg/L		05/29/25 07:20	05/30/25 00:27	1
Sodium	76	B ^2	0.20	0.090	mg/L		05/29/25 07:20	05/30/25 00:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	220		5.0	5.0	mg/L			05/15/25 15:06	1



QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-645268/1-A
Matrix: Water
Analysis Batch: 649979

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 15:46	1
Potassium	ND		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 15:46	1
Sodium	ND		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 15:46	1

Lab Sample ID: MB 410-645268/1-A
Matrix: Water
Analysis Batch: 650000

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.050	0.016	mg/L		05/26/25 20:30	05/28/25 21:34	1
Potassium	ND		0.20	0.065	mg/L		05/26/25 20:30	05/28/25 21:34	1
Sodium	ND		0.20	0.090	mg/L		05/26/25 20:30	05/28/25 21:34	1

Lab Sample ID: LCS 410-645268/2-A
Matrix: Water
Analysis Batch: 649979

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	5.22		mg/L		104	90 - 110
Potassium	5.00	5.37		mg/L		107	90 - 110
Sodium	5.00	5.44		mg/L		109	89 - 114

Lab Sample ID: LCS 410-645268/2-A
Matrix: Water
Analysis Batch: 650000

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	4.81		mg/L		96	90 - 110
Potassium	5.00	4.94		mg/L		99	90 - 110
Sodium	5.00	4.87		mg/L		97	89 - 114

Lab Sample ID: 180-190267-12 MS
Matrix: Water
Analysis Batch: 650000

Client Sample ID: CCR-LF-2-050825
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	290		5.00	314	4	mg/L		461	75 - 125
Sodium	7000		5.00	7060	4	mg/L		1658	75 - 125

Lab Sample ID: 180-190267-12 MSD
Matrix: Water
Analysis Batch: 650000

Client Sample ID: CCR-LF-2-050825
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	290		5.00	301	4	mg/L		205	75 - 125	4	20
Sodium	7000		5.00	6860	4	mg/L		-2449	75 - 125	3	20

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-190267-12 DU
Matrix: Water
Analysis Batch: 649979

Client Sample ID: CCR-LF-2-050825
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	6.0		5.63		mg/L		6	20

Lab Sample ID: 180-190267-12 DU
Matrix: Water
Analysis Batch: 650000

Client Sample ID: CCR-LF-2-050825
Prep Type: Total Recoverable
Prep Batch: 645268

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Magnesium	290		287		mg/L		1	20
Sodium	7000		6870		mg/L		2	20

Lab Sample ID: MB 410-645274/1-A
Matrix: Water
Analysis Batch: 650603

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.050	0.016	mg/L		05/29/25 07:20	05/29/25 22:45	1
Potassium	ND		0.20	0.065	mg/L		05/29/25 07:20	05/29/25 22:45	1
Sodium	0.0967	J	0.20	0.090	mg/L		05/29/25 07:20	05/29/25 22:45	1

Lab Sample ID: LCS 410-645274/2-A
Matrix: Water
Analysis Batch: 650603

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	4.77		mg/L		95	90 - 110
Potassium	5.00	4.71		mg/L		94	90 - 110
Sodium	5.00	4.83		mg/L		97	89 - 114

Lab Sample ID: 180-190267-31 MS
Matrix: Water
Analysis Batch: 650603

Client Sample ID: CCR-AP-21R-050625
Prep Type: Total Recoverable
Prep Batch: 645274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	120		5.00	127	4	mg/L		137	75 - 125
Potassium	1.2		5.00	6.04		mg/L		97	75 - 125
Sodium	110	B ^2	5.00	116	4	mg/L		162	75 - 125

Lab Sample ID: 180-190267-31 MSD
Matrix: Water
Analysis Batch: 650603

Client Sample ID: CCR-AP-21R-050625
Prep Type: Total Recoverable
Prep Batch: 645274

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	120		5.00	122	4	mg/L		53	75 - 125	3	20
Potassium	1.2		5.00	5.99		mg/L		96	75 - 125	1	20
Sodium	110	B ^2	5.00	112	4	mg/L		82	75 - 125	3	20

QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-190267-31 DU
Matrix: Water
Analysis Batch: 650603

Client Sample ID: CCR-AP-21R-050625
Prep Type: Total Recoverable
Prep Batch: 645274

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Magnesium	120		121		mg/L		1	20
Potassium	1.2		1.20		mg/L		0	20
Sodium	110	B ^2	110		mg/L		2	20

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-495979/29
Matrix: Water
Analysis Batch: 495979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity as CaCO3 to pH 4.5	ND		5.0	5.0	mg/L			05/15/25 13:28	1

Lab Sample ID: MB 180-495979/5
Matrix: Water
Analysis Batch: 495979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity as CaCO3 to pH 4.5	ND		5.0	5.0	mg/L			05/15/25 11:14	1

Lab Sample ID: LCS 180-495979/27
Matrix: Water
Analysis Batch: 495979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCS 180-495979/3
Matrix: Water
Analysis Batch: 495979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LLCS 180-495979/28
Matrix: Water
Analysis Batch: 495979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LLCS 180-495979/4
Matrix: Water
Analysis Batch: 495979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

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QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-190267-1 DU
Matrix: Water
Analysis Batch: 495979

Client Sample ID: CCR-AP-6-050625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	260		256		mg/L		0.3	20

Lab Sample ID: 180-190267-7 DU
Matrix: Water
Analysis Batch: 495979

Client Sample ID: FD-PZ-2-050725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	470		478		mg/L		2	20

Lab Sample ID: 180-190267-28 DU
Matrix: Water
Analysis Batch: 495979

Client Sample ID: CCR-AP-31-050625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	480		491		mg/L		1	20

Lab Sample ID: 180-190267-34 DU
Matrix: Water
Analysis Batch: 495979

Client Sample ID: CCR-BK-1R-050725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	210		207		mg/L		0.06	20

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Metals

Prep Batch: 645268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-5	CCR-AP-4R-050625	Total Recoverable	Water	3005A	
180-190267-6	CCR-AP-11-050625	Total Recoverable	Water	3005A	
180-190267-12	CCR-LF-2-050825	Total Recoverable	Water	3005A	
180-190267-34	CCR-BK-1R-050725	Total Recoverable	Water	3005A	
180-190267-36	CCR-AP-9R-050725	Total Recoverable	Water	3005A	
180-190267-37	CCR-LF-3-050725	Total Recoverable	Water	3005A	
180-190267-38	CCR-LF-4-050825	Total Recoverable	Water	3005A	
180-190267-39	CCR-LF-5-050825	Total Recoverable	Water	3005A	
MB 410-645268/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-645268/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-190267-12 MS	CCR-LF-2-050825	Total Recoverable	Water	3005A	
180-190267-12 MSD	CCR-LF-2-050825	Total Recoverable	Water	3005A	
180-190267-12 DU	CCR-LF-2-050825	Total Recoverable	Water	3005A	

Prep Batch: 645274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-1	CCR-AP-6-050625	Total Recoverable	Water	3005A	
180-190267-2	CCR-AP-7R-050625	Total Recoverable	Water	3005A	
180-190267-3	CCR-AP-1R-050625	Total Recoverable	Water	3005A	
180-190267-4	CCR-AP-10-050625	Total Recoverable	Water	3005A	
180-190267-7	FD-PZ-2-050725	Total Recoverable	Water	3005A	
180-190267-8	FD-PZ-1-050725	Total Recoverable	Water	3005A	
180-190267-9	MH-1-050725	Total Recoverable	Water	3005A	
180-190267-10	MH-2-050725	Total Recoverable	Water	3005A	
180-190267-11	CCR-LF-1-050725	Total Recoverable	Water	3005A	
180-190267-13	CCR-SP-1R-050825	Total Recoverable	Water	3005A	
180-190267-14	CCR-SP-2-050825	Total Recoverable	Water	3005A	
180-190267-15	CCR-SP-3-050825	Total Recoverable	Water	3005A	
180-190267-28	CCR-AP-3I-050625	Total Recoverable	Water	3005A	
180-190267-29	CCR-AP-3R-050625	Total Recoverable	Water	3005A	
180-190267-30	CCR-AP-5R-050625	Total Recoverable	Water	3005A	
180-190267-31	CCR-AP-21R-050625	Total Recoverable	Water	3005A	
180-190267-32	CCR-AP-2R-050625	Total Recoverable	Water	3005A	
180-190267-33	CCR-AP-8-050625	Total Recoverable	Water	3005A	
180-190267-35	CCR-BK-2-050725	Total Recoverable	Water	3005A	
180-190267-40	CCR-LF-6-050825	Total Recoverable	Water	3005A	
MB 410-645274/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-645274/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-190267-31 MS	CCR-AP-21R-050625	Total Recoverable	Water	3005A	
180-190267-31 MSD	CCR-AP-21R-050625	Total Recoverable	Water	3005A	
180-190267-31 DU	CCR-AP-21R-050625	Total Recoverable	Water	3005A	

Analysis Batch: 649979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-6	CCR-AP-11-050625	Total Recoverable	Water	EPA 6020B	645268
180-190267-12	CCR-LF-2-050825	Total Recoverable	Water	EPA 6020B	645268
180-190267-34	CCR-BK-1R-050725	Total Recoverable	Water	EPA 6020B	645268
180-190267-37	CCR-LF-3-050725	Total Recoverable	Water	EPA 6020B	645268
MB 410-645268/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	645268
LCS 410-645268/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	645268
180-190267-12 DU	CCR-LF-2-050825	Total Recoverable	Water	EPA 6020B	645268

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QC Association Summary

Client: Haley & Aldrich, Inc.
 Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
 SDG: Geochemistry

Metals

Analysis Batch: 650000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-5	CCR-AP-4R-050625	Total Recoverable	Water	EPA 6020B	645268
180-190267-6	CCR-AP-11-050625	Total Recoverable	Water	EPA 6020B	645268
180-190267-12	CCR-LF-2-050825	Total Recoverable	Water	EPA 6020B	645268
180-190267-34	CCR-BK-1R-050725	Total Recoverable	Water	EPA 6020B	645268
180-190267-36	CCR-AP-9R-050725	Total Recoverable	Water	EPA 6020B	645268
180-190267-37	CCR-LF-3-050725	Total Recoverable	Water	EPA 6020B	645268
180-190267-38	CCR-LF-4-050825	Total Recoverable	Water	EPA 6020B	645268
180-190267-39	CCR-LF-5-050825	Total Recoverable	Water	EPA 6020B	645268
MB 410-645268/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	645268
LCS 410-645268/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	645268
180-190267-12 MS	CCR-LF-2-050825	Total Recoverable	Water	EPA 6020B	645268
180-190267-12 MSD	CCR-LF-2-050825	Total Recoverable	Water	EPA 6020B	645268
180-190267-12 DU	CCR-LF-2-050825	Total Recoverable	Water	EPA 6020B	645268

Analysis Batch: 650603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-1	CCR-AP-6-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-1	CCR-AP-6-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-2	CCR-AP-7R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-3	CCR-AP-1R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-3	CCR-AP-1R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-4	CCR-AP-10-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-4	CCR-AP-10-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-7	FD-PZ-2-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-8	FD-PZ-1-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-8	FD-PZ-1-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-9	MH-1-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-9	MH-1-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-10	MH-2-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-10	MH-2-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-11	CCR-LF-1-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-13	CCR-SP-1R-050825	Total Recoverable	Water	EPA 6020B	645274
180-190267-13	CCR-SP-1R-050825	Total Recoverable	Water	EPA 6020B	645274
180-190267-14	CCR-SP-2-050825	Total Recoverable	Water	EPA 6020B	645274
180-190267-15	CCR-SP-3-050825	Total Recoverable	Water	EPA 6020B	645274
180-190267-28	CCR-AP-3I-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-28	CCR-AP-3I-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-29	CCR-AP-3R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-29	CCR-AP-3R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-30	CCR-AP-5R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-30	CCR-AP-5R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-31	CCR-AP-21R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-32	CCR-AP-2R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-32	CCR-AP-2R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-33	CCR-AP-8-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-35	CCR-BK-2-050725	Total Recoverable	Water	EPA 6020B	645274
180-190267-40	CCR-LF-6-050825	Total Recoverable	Water	EPA 6020B	645274
MB 410-645274/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	645274
LCS 410-645274/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	645274
180-190267-31 MS	CCR-AP-21R-050625	Total Recoverable	Water	EPA 6020B	645274
180-190267-31 MSD	CCR-AP-21R-050625	Total Recoverable	Water	EPA 6020B	645274

Eurofins Pittsburgh

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: AB Brown Generating Station

Job ID: 180-190267-1
SDG: Geochemistry

Metals (Continued)

Analysis Batch: 650603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-31 DU	CCR-AP-21R-050625	Total Recoverable	Water	EPA 6020B	645274

Analysis Batch: 651100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-33	CCR-AP-8-050625	Total Recoverable	Water	EPA 6020B	645274

General Chemistry

Analysis Batch: 495979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-190267-1	CCR-AP-6-050625	Total/NA	Water	SM2320 B	
180-190267-2	CCR-AP-7R-050625	Total/NA	Water	SM2320 B	
180-190267-3	CCR-AP-1R-050625	Total/NA	Water	SM2320 B	
180-190267-4	CCR-AP-10-050625	Total/NA	Water	SM2320 B	
180-190267-5	CCR-AP-4R-050625	Total/NA	Water	SM2320 B	
180-190267-6	CCR-AP-11-050625	Total/NA	Water	SM2320 B	
180-190267-7	FD-PZ-2-050725	Total/NA	Water	SM2320 B	
180-190267-8	FD-PZ-1-050725	Total/NA	Water	SM2320 B	
180-190267-9	MH-1-050725	Total/NA	Water	SM2320 B	
180-190267-10	MH-2-050725	Total/NA	Water	SM2320 B	
180-190267-11	CCR-LF-1-050725	Total/NA	Water	SM2320 B	
180-190267-12	CCR-LF-2-050825	Total/NA	Water	SM2320 B	
180-190267-13	CCR-SP-1R-050825	Total/NA	Water	SM2320 B	
180-190267-14	CCR-SP-2-050825	Total/NA	Water	SM2320 B	
180-190267-15	CCR-SP-3-050825	Total/NA	Water	SM2320 B	
180-190267-28	CCR-AP-3I-050625	Total/NA	Water	SM2320 B	
180-190267-29	CCR-AP-3R-050625	Total/NA	Water	SM2320 B	
180-190267-30	CCR-AP-5R-050625	Total/NA	Water	SM2320 B	
180-190267-31	CCR-AP-21R-050625	Total/NA	Water	SM2320 B	
180-190267-32	CCR-AP-2R-050625	Total/NA	Water	SM2320 B	
180-190267-33	CCR-AP-8-050625	Total/NA	Water	SM2320 B	
180-190267-34	CCR-BK-1R-050725	Total/NA	Water	SM2320 B	
180-190267-35	CCR-BK-2-050725	Total/NA	Water	SM2320 B	
180-190267-36	CCR-AP-9R-050725	Total/NA	Water	SM2320 B	
180-190267-37	CCR-LF-3-050725	Total/NA	Water	SM2320 B	
180-190267-38	CCR-LF-4-050825	Total/NA	Water	SM2320 B	
180-190267-39	CCR-LF-5-050825	Total/NA	Water	SM2320 B	
180-190267-40	CCR-LF-6-050825	Total/NA	Water	SM2320 B	
MB 180-495979/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-495979/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-495979/27	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-495979/3	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-495979/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-495979/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-190267-1 DU	CCR-AP-6-050625	Total/NA	Water	SM2320 B	
180-190267-7 DU	FD-PZ-2-050725	Total/NA	Water	SM2320 B	
180-190267-28 DU	CCR-AP-3I-050625	Total/NA	Water	SM2320 B	
180-190267-34 DU	CCR-BK-1R-050725	Total/NA	Water	SM2320 B	

Chain of Custody Record

Client Information		Lab PM Johnston, Andy		Carrier Tracking No(s)		COC No 180-113087-19828.1	
Client Contact: Britton Hundley		E-Mail Andy.Johnson@et.eurofins.com		State of Origin IN		Page Page 1 of 2	
Company Haley & Aldrich, Inc		PWSID		Analysis Requested		Job # 0129420-037	
Address 400 Augusta Street Suite 100		Due Date Requested:		6020B - K/Mg/Na by 6020B		Preservation Codes: D - HNO3 N - None	
City Greenville		TAT Requested (days): STD		Field Filtered Sample (Yes or No)		Barcode 	
State, Zip SC, 29601		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Perform MS/MSD (Yes or No)		180-190267-01 Chain of Custody	
Phone		PO # 0129420-037-001-01		2320B - Alkalinity by 2320B			
Email BHundley@haleyaldrich.com		WO # 0129420-037-001-01					
Project Name AB Brown Generating Station-Geochemistry		Project # 18016014					
Site		SSOW#					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, O-wastewater, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2320B - Alkalinity by 2320B	6020B - K/Mg/Na by 6020B	Total Number	Special Instructions/Note:
CCR-AP-G-050625	05/06/25	09:20	G	Water	N	N	X	X	2	
CCR-AP-3I-050625		09:45		Water	N	N	X	X	2	
CCR-AP-7R-050625		11:35		Water	N	N	X	X	2	
CCR-AP-3R-050625		11:35		Water	N	N	X	X	2	
CCR-AP-1R-050625		13:15		Water	N	N	X	X	2	
CCR-AP-5R-050625		13:05		Water	N	N	X	X	2	
CCR-AP-10-050625		15:05		Water	N	N	X	X	2	
CCR-AP-2IR-050625		15:10		Water	N	N	X	X	2	
CCR-AP-4R-050625		17:00		Water	N	N	X	X	2	
CCR-AP-2R-050625		17:15		Water	N	N	X	X	2	
CCR-AP-8-050625		18:55		Water	N	N	X	X	2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Francis Reed* Date/Time: 05/08/25 18:00 Company: H&A
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record

Client Information		Sampler: Francis Reed + Raegen Elmer		Lab PM: Johnson, Andy		Carrier Tracking No(s):		COC No: 180-113087-19828.3	
Client Contact: Britton Hundley		Phone: 614-288-8619		E-Mail: Andy.Johnson@et.eurofins.com		State of Origin: IN		Page: 1 of 3	
Company: Haley & Aldrich, Inc		Address: 400 Augusta Street Suite 100 Greenville SC, 29601		City: Greenville		State: SC		Job #: 0129420-037	
PO #: 0129420-037-001-01		WO #: 0129420-037-001-01		Project #: 18016014		SSOW#: 		Preservation Codes: D - HNO3 N - None	
Due Date Requested:		TAT Requested (days): STD		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Analysis Requested		Total Number of Containers	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, On-water/Oil)	
CCR - AP - 11 - 0506725		05/06/25		19:05		G		Water	
CCR - BK - 1R - 0507725		05/07/25		09:20				Water	
FD - PZ - 1 - 0507725				10:55				Water	
CCR - BK - 2 - 0507725				11:50				Water	
MH - 1 - 0507725				12:00				Water	
MH - 2 - 0507725				13:15				Water	
CCR - AP - 9 - 0507725				13:25				Water	
FD - PZ - 2 - 0507725				09:00				Water	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B - K/Mg/Na by 6020B		2320B - Alkalinity by 2320B		Special Instructions/Note:	
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Possible Hazard Identification		Poison B <input type="checkbox"/>		Unknown <input type="checkbox"/>		Radiological <input type="checkbox"/>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by: Francis Reed		Date/Time: 05/08/25 18:00		Company: H+A		Received by: [Signature]		Date/Time: 5/10/25 0940	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					



Client Information
 Client Contact: Britton Hundley
 Company: Haley & Aldrich, Inc.
 Address: 400 Augusta Street Suite 100 Greenville SC, 29601
 City: Greenville
 State, Zip: SC, 29601
 Phone: 614-288-8619
 Email: Andy.Johnson@et.eurofinsus.com
 Lab PM: Johnson, Andy
 Carrier Tracking No(s): 180-113087-19828.3
 State of Origin: IN
 Page: 1 of 1
 Job #: 0129420-037

Due Date Requested:
 TAT Requested (days): **STD**
 Compliance Project: Yes No
 PO #: 0129420-037-001-01
 WO #: 0129420-037-001-01
 Project #: 18016014
 SSOV#: AB Brown Generating Station-Geochemistry
 Site:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastobol, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - K/Mg/Na by 6020B	2320B - Alkalinity by 2320B	Total Number of containers	Special Instructions/Note:
CCR-LF-1-050725	05/07/25	14:45	G	Water	N	N	X	N	2	
CCR-LF-3-050725	05/07/25	15:10		Water	N	N	X	N	2	
DUP-2-050825 (FR)	05/08/25	12:00		Water	N	N	X	N	2	
CCR-LF-2-050825	05/08/25	08:50		Water	N	N	X	N	2	
CCR-LF-4-050825		09:00		Water	N	N	X	N	2	
CCR-LF-5-050825		10:35		Water	N	N	X	N	2	
CCR-LF-6-050825		11:50	↓	Water	N	N	X	N	2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: **Francis Reed** Date/Time: **05/08/25 16:00** Company: **H&A**
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

100-0

435960827622

ETP-1

XXL-100:

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH (CENTERPOINT ENERGY)
A.B. BROWN GENERATING STATION
8511 WELBORN ROAD

SHIP DATE: 02MAY25
ACTWGT: 40.00 LB MAN
CAD: 0522321/CAFE3905

MOUNT VERNON, IN 47620
UNITED STATES US

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH (CENTERPOINT ENERGY)
A.B. BROWN GENERATING STATION
8511 WELBORN ROAD

SHIP DATE: 02MAY25
ACTWGT: 40.00 LB MAN
CAD: 0522321/CAFE3905

MOUNT VERNON, IN 47620
UNITED STATES US

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

PITTSBURGH PA 15238

(412) 963-7630

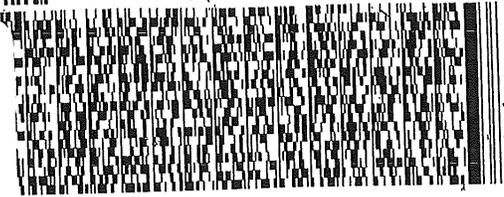
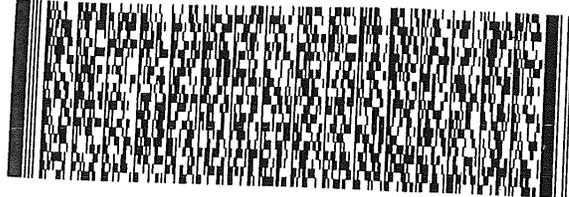
(412) 963-7630

REF: RETURN

REF: RETURN

RMA: ||| ||| |||

RMA: ||| ||| |||



180-190267 Waybill

Uncorrected temp 2.4 °C
Thermometer ID 26
CF -0.5 Initials TS

PT-WI-SR-001 effective 7/26/13

NX AGCA

FedEx
TRK# 4359 6082 7622
0221

FRI - 09 MAY 10:30A
PRIORITY OVERNIGHT

PA-US
15238
PIT

Ex
4359 6082 7611

FRI - 09 MAY 10:30A
PRIORITY OVERNIGHT

X AGCA

Uncorrected temp
Thermometer ID

2.2 °C
26

CF -0.5 Initials TS

PT-WI-SR-001 effective 7/26/13

#3941278 05/08 58CJ3/630D/C6C4

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ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH (CENTERPOINT ENERGY
A.B. BROWN GENERATING STATION
8511 WELBORN ROAD

SHIP DATE: 02MAY25
ACTWGT: 40.00 LB MAN
CAD: 0522321/CAFE3905

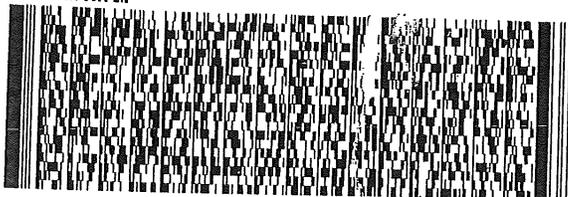
MOUNT VERNON, IN 47620
UNITED STATES US

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: RETURN

RMA: ||| ||| |||



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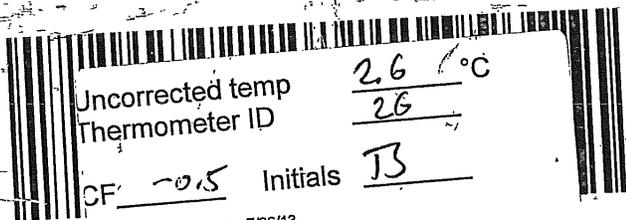
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TRK# 4359 6082 7699
0221

NX AGCA

FRI - 09 MAY 10:30
PRIORITY OVERNIGHT

15238
PA-US PI



Uncorrected temp
Thermometer ID

2.6 °C
26

CF -0.5 Initials JB

PT-WI-SR-001 effective 7/26/13

#3941278 05/08 58CJ3/630D/C6C4

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH (CENTERPOINT ENERGY
A.B. BROWN GENERATING STATION
8511 WELBORN ROAD

SHIP DATE: 29APR25
ACTWGT: 10.00 LB MAN
CAD: 0522321/CAFE3

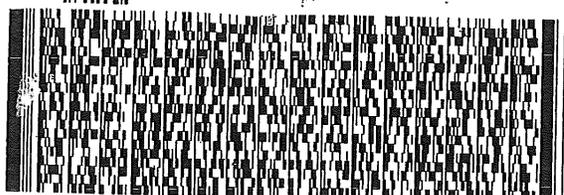
MOUNT VERNON, IN 47620
UNITED STATES US

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: S180-113087

RMA: ||| ||| |||



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TRK# 4359 6082 6394
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NX AGCA

FRI - 09 MAY 10:30
PRIORITY OVERNIGHT

15238
PA-US PI

Uncorrected temp
Thermometer ID

1.6 °C
26

CF -0.5 Initials JB

PT-WI-SR-001 effective 7/26/13

#3941278 05/08 58CJ3/630D/C6C4



ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH (CENTERPOINT ENERGY)
A.B. BROWN GENERATING STATION
8511, WELBORN, ROAD

SHIP DATE: 02MAY25
ACTWGT: 40.00 LB MAN
CAD: 0522321/CAFE3905

MOUNT VERNON, IN 47620
UNITED STATES US

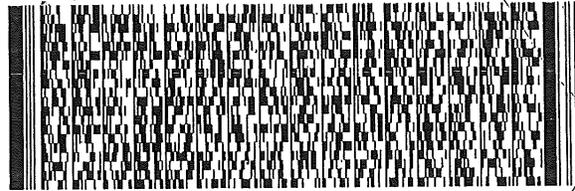
TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630

REF: RETURN

RMA: |||



FedEx
Express

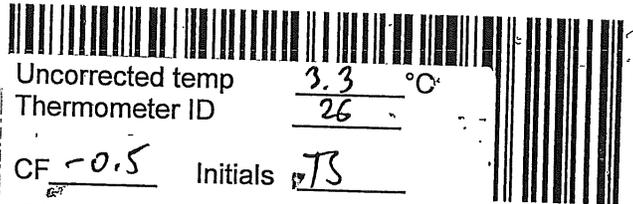


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FRI - 09 MAY 10:30
PRIORITY OVERNIGHT

NX AGCA

15238
PA-US **PI**



Uncorrected temp 3.3 °C
Thermometer ID 26

CF -0.5 Initials JS

PT-WI-SR-001 effective 7/26/13

#3941278 05/08 58CJ3/630D/C6C4

Part # 159469-234 218 2325
159469-234 218 2325
EXP 02/26

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180-190267 Waybill

ORIGIN ID:AGCA (864) 549-7656
LINDSEY GISH (CENTERPOINT ENERGY)
A.B. BROWN GENERATING STATION
8511 WELBORN ROAD

SHIP DATE: 29APR25
ACTWGT: 10.00 LB MAN
CAD: 0522321/CAFE3905

MOUNT VERNON, IN 47620
UNITED STATES US

Part # 159469-434 RFD02 EXP 02/26

TO **SAMPLE RECEIVING DEPARTMENT**
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7530

REF: S180-113087

RMA:



Uncorrected temp
Thermometer ID 3.7 25

CF -0.4 Initials JR

PT-WI-SR-001 effective 7/26/13

Uncorrected temp

FedEx
Express



AN10P11142015ZT

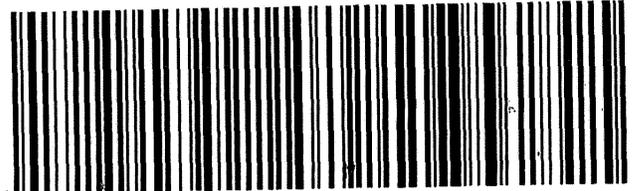
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TRK# 4359 6082 6409
0221

FRI - 09 MAY 10:30A
PRIORITY OVERNIGHT

NX AGCA

15238
PA-US PI



#3941278 05/08 58CJ3/630D/C6C4

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Chain of Custody Record



63

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Johnson, Andy		Carrier Tracking No(s): N/A		COC No: 180-538565.1																																										
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Andy.Johnson@et.eurofinsus.com		State of Origin: Indiana		Page: Page 1 of 4																																										
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): N/A				Job #: 180-190267-1																																										
Address: 2425 New Holland Pike, City: Lancaster State, Zip: PA, 17601 Phone: 717-656-2300(Tel) Email: N/A Project Name: AB Brown Generating Station Site: N/A		Due Date Requested: 6/2/2025 TAT Requested (days): N/A		<table border="1"> <thead> <tr> <th colspan="12">Analysis Requested</th> </tr> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>6020B/2005A (MOD) K/Mg/Na by 6020B</th> <th colspan="9"></th> <th>Total Number of containers</th> </tr> </thead> <tbody> <tr> <td></td> </tr> </tbody> </table>						Analysis Requested												Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/2005A (MOD) K/Mg/Na by 6020B										Total Number of containers															Preservation Codes:	
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PO #: N/A WO #: N/A Project #: 18016014 SSOW#: N/A										Other: N/A																																								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/2005A (MOD) K/Mg/Na by 6020B				Total Number of containers	Special Instructions/Note:																																					
				Preservation Code:																																														
CCR-AP-6-050625 (180-190267-1)		5/6/25	09:20 Eastern	G	Water		X					1																																						
CCR-AP-7R-050625 (180-190267-2)		5/6/25	11:35 Eastern	G	Water		X					1																																						
CCR-AP-1R-050625 (180-190267-3)		5/6/25	13:15 Eastern	G	Water		X					1																																						
CCR-AP-10-050625 (180-190267-4)		5/6/25	15:05 Eastern	G	Water		X					1																																						
CCR-AP-4R-050625 (180-190267-5)		5/6/25	17:00 Eastern	G	Water		X					1																																						
CCR-AP-11-050625 (180-190267-6)		5/6/25	19:05 Eastern	G	Water		X					1																																						
FD-PZ-2-050725 (180-190267-7)		5/7/25	09:00 Eastern	G	Water		X					1																																						
FD-PZ-1-050725 (180-190267-8)		5/7/25	10:55 Eastern	G	Water		X					1																																						
MH-1-050725 (180-190267-9)		5/7/25	12:00 Eastern	G	Water		X					1																																						
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Eurofins Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Johnson, Andy		Carrier Tracking No(s): N/A		COC No: 180-538565.2																					
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Andy.Johnson@et.eurofinsus.com		State of Origin: Indiana		Page: Page 2 of 4																					
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): N/A				Job #: 180-190267-1																					
Address: 2425 New Holland Pike, City: Lancaster State, Zip: PA, 17601 Phone: 717-656-2300(Tel) Email: N/A Project Name: AB Brown Generating Station Site: N/A		Due Date Requested: 6/2/2025 TAT Requested (days): N/A		Analysis Requested						Preservation Codes:																			
PO #: N/A WO #: N/A Project #: 18016014 SSOW#: N/A										Other: N/A																			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		6020B/3005A (MOD) K/Mg/Na by 6020B		Total Number of containers		Special Instructions/Note:											
						Preservation Code:																							
MH-2-050725 (180-190267-10)		5/7/25		13:15 Eastern		G		Water				X				1													
CCR-LF-1-050725 (180-190267-11)		5/7/25		14:45 Eastern		G		Water				X				1													
CCR-LF-2-050825 (180-190267-12)		5/8/25		08:50 Eastern		G		Water				X				1													
CCR-SP-1R-050825 (180-190267-13)		5/8/25		10:35 Eastern		G		Water				X				1													
CCR-SP-2-050825 (180-190267-14)		5/8/25		12:05 Eastern		G		Water				X				1													
CCR-SP-3-050825 (180-190267-15)		5/8/25		13:50 Eastern		G		Water				X				1													
CCR-AP-3I-050625 (180-190267-28)		5/6/25		09:45 Eastern		G		Water				X				1													
CCR-AP-3R-050625 (180-190267-29)		5/6/25		11:35 Eastern		G		Water				X				1													
CCR-AP-5R-050625 (180-190267-30)		5/6/25		13:05 Eastern		G		Water				X				1													
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Eurofins Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Johnson, Andy		Carrier Tracking No(s): N/A		COC No: 180-538565.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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CCR-AP-8-050625 (180-190267-33)		5/6/25		18:55 Eastern		G Water				X						1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CCR-BK-1R-050725 (180-190267-34)		5/7/25		09:20 Eastern		G Water				X						1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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CCR-AP-9R-050725 (180-190267-36)		5/7/25		13:25 Eastern		G Water				X						1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CCR-LF-3-050725 (180-190267-37)		5/7/25		15:10 Eastern		G Water				X						1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Eurofins Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Johnson, Andy		Carrier Tracking No(s): N/A		COC No: 180-538565.4			
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Andy.Johnson@et.eurofinsus.com		State of Origin: Indiana		Page: Page 4 of 4			
Company: Eurofins Lancaster Laboratories Environm				Accreditations Required (See note): N/A				Job #: 180-190267-1			
Address: 2425 New Holland Pike, City: Lancaster State, Zip: PA, 17601		Due Date Requested: 6/2/2025		Analysis Requested						Preservation Codes: - Other: N/A	
Phone: 717-656-2300(Tel)		TAT Requested (days): N/A									
Email: N/A		PO #: N/A									
Project Name: AB Brown Generating Station		WO #: N/A									
Site: N/A		Project #: 18016014		SSOW#: N/A		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	6020B/3005A (MOD) K/Mg/Na by 6020B	Total Number of containers	Special Instructions/Note:			
 		 	 	 	 	 	 	 			
CCR-LF-6-050825 (180-190267-40)		5/8/25	11:50 Eastern	G	Water	X	1				
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 5/14/25 1330		Company: E/I/F		Received by: <i>[Signature]</i>		Date/Time: 5/14/25 1330			
Relinquished by: <i>Dearence Williams</i>		Date/Time: 5/14/25 1915		Company: E/I/F		Received by: <i>[Signature]</i>		Date/Time: 5/14/25 1915			
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: 5/14/25 1915			
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.9 C 2.9									

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 180-190267-1

SDG Number: Geochemistry

Login Number: 190267

List Number: 1

Creator: Ryan, Shannon G

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Missing a cooler only received 5 coolers 5/9/25
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 180-190267-1

SDG Number: Geochemistry

Login Number: 190267

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	Missing cooler arrived 5/10/25
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 180-190267-1

SDG Number: Geochemistry

Login Number: 190267

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 3

List Creation: 05/14/25 09:18 AM

Creator: Cyms, Carolyn M

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Britton Hundley
Haley & Aldrich Inc
400 Augusta Street
Suite 100
Greenville, South Carolina 29601

Generated 12/16/2025 3:00:52 PM

JOB DESCRIPTION

AB Brown Generating Station
Semi-Annual

JOB NUMBER

180-198316-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Generated
12/16/2025 3:00:52 PM

Authorized for release by
Andy Johnson, Senior Project Manager
Andy.Johnson@et.eurofinsus.com
(615)818-9567



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	6
Certification Summary	7
Sample Summary	11
Method Summary	12
Lab Chronicle	13
Client Sample Results	29
QC Sample Results	73
QC Association Summary	84
Chain of Custody	93
Receipt Checklists	102

Case Narrative

Client: Haley & Aldrich Inc
Project: AB Brown Generating Station

Job ID: 180-198316-1

Job ID: 180-198316-1

Eurofins Pittsburgh

Job Narrative 180-198316-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/11/2025 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 2.5°C, 2.6°C, 2.9°C, 2.9°C, 3.4°C, 3.7°C, 3.7°C and 4.3°C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CCR-AP-1R-110525 (180-198316-1). The container labels list the sample time as 0840 while the chain has 0814. Logged per the chain.

This is the only sample to receive two unpreserved 250mL plastic containers rather than two metals containers: FD-PZ-1-110625 (180-198316-15). One unpreserved container is being sent to Canton to be preserved for the metals analysis.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FD-PZ-2-110525 (180-198316-8). The container labels list the sample date at 11/6/25 while the chain has 11/5/25. Logged per the chain.

Gas Flow Proportional Counter

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Pittsburgh

Case Narrative

Client: Haley & Aldrich Inc
Project: AB Brown Generating Station

Job ID: 180-198316-1

Job ID: 180-198316-2

Eurofins Pittsburgh

Job Narrative 180-198316-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/11/2025 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 2.5°C, 2.6°C, 2.9°C, 2.9°C, 3.4°C, 3.7°C, 3.7°C and 4.3°C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): CCR-AP-1R-110525 (180-198316-1). The container labels list the sample time as 0840 while the chain has 0814. Logged per the chain.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): FD-PZ-2-110525 (180-198316-8). The container labels list the sample date at 11/6/25 while the chain has 11/5/25. Logged per the chain.

This is the only sample to receive two unpreserved 250mL plastic containers rather than two metals containers. One unpreserved container is being sent to Canton to be preserved for the metals analysis.

HPLC/IC

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: CCR-AP-6-110525 (180-198316-5), CCR-AP-8-110525 (180-198316-6), CCR-AP-5R-110525 (180-198316-7), CCR-AP-5R-110525 (180-198316-7[MS]), CCR-AP-5R-110525 (180-198316-7[MSD]), MH-1-110625 (180-198316-9), CCR-AP-3R-110625 (180-198316-11), CCR-AP-3I-110625 (180-198316-12), CCR-AP-2R-110625 (180-198316-13), CCR-AP-21R-110625 (180-198316-14), FD-PZ-1-110625 (180-198316-15), MH-2-110625 (180-198316-16), CCR-AP-10-110725 (180-198316-17) and CCR-AP-7R-110725 (180-198316-19). Elevated reporting limits (RLs) are provided.

Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: DUP-3-110525 (180-198316-20). Elevated reporting limits (RLs) are provided.

Method 9056A_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: CCR-AP-11-110525 (180-198316-2) and CCR-AP-9-110525 (180-198316-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Pittsburgh

Definitions/Glossary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00690	06-28-25 *
California	State	2891	04-30-26
Connecticut	State	PH-0820	09-30-26
Florida	NELAP	E871008	06-30-25 *
Georgia	State	PA 02-00416	04-30-26
Illinois	NELAP	200005	07-31-25 *
Kansas	NELAP	E-10350	01-31-26
Kentucky (UST)	State	162013	04-30-26
Kentucky (WW)	State	KY98043	12-31-25
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-25 *
Maine	State	PA00164	03-06-26
Minnesota	NELAP	042-999-482	12-31-25
New Hampshire	NELAP	2030	04-04-26
New Jersey	NELAP	PA005	06-30-25 *
New York	NELAP	11182	03-31-26
North Carolina (WW/SW)	State	434	12-31-25
North Dakota	State	R-227	04-30-24 *
Oregon	NELAP	PA-2151	02-06-26
Pennsylvania	NELAP	02-00416	04-30-26
Rhode Island	State	LAO00375	12-30-25
South Carolina	State	89014	04-30-25 *
Texas	NELAP	T104704528	03-31-26
US Fish & Wildlife	US Federal Programs	A21930	04-30-26
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462024-14	03-31-24 *
Virginia	NELAP	460189	09-30-26
West Virginia DEP	State	142	01-31-26
Wisconsin	State	998027800	08-31-26

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Laboratory: Eurofins Cleveland (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-26
A2LA	Dept. of Energy	0001.01	11-30-26
A2LA	ISO/IEC 17025	0001.01	11-30-26
Alabama	State	43200	01-31-26
Alaska	State	PA00009	06-30-26
Alaska (UST)	State	17-027	12-30-26
Arizona	State	AZ0780	03-12-26
Arkansas DEQ	State	88-00660	08-09-26
California	State	2792	01-31-26
Colorado	State	PA00009	06-30-26
Connecticut	State	PH-0746	06-30-27
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-26
Delaware (DW)	State	N/A	01-31-26
Florida	NELAP	E87997	06-30-26
Georgia (DW)	State	C048	01-31-26
Illinois	NELAP	200027	01-31-26
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-26
Kentucky (DW)	State	KY90088	12-31-25
Kentucky (UST)	State	0001.01	11-30-26
Kentucky (WW)	State	KY90088	12-31-25
Louisiana (All)	NELAP	02055	06-30-26
Maine	State	2019012	03-12-27
Maryland	State	100	06-30-26
Massachusetts	State	M-PA009	06-30-26
Michigan	State	9930	01-31-26
Minnesota	NELAP	042-999-487	12-31-26
Mississippi	State	023	01-31-26
Missouri	State	450	01-31-28
Montana (DW)	State	0098	01-01-26
Nebraska	State	NE-OS-32-17	01-31-26
New Hampshire	NELAP	2730	01-10-26
New Jersey	NELAP	PA011	06-30-26
New York	NELAP	10670	04-01-26
North Carolina (DW)	State	42705	07-31-26
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Ohio	State	87787	01-31-26
Oklahoma	NELAP	9804	12-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	PA200001	09-11-26
Pennsylvania	NELAP	36-00037	01-31-26
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-25
South Carolina	State	89002	01-31-26
Tennessee	State	02838	01-31-26
Texas	NELAP	T104704194-23-46	08-31-26
USDA	US Federal Programs	525-22-298-19481	01-23-26
Vermont	State	VT - 36037	10-28-26
Virginia	NELAP	460182	06-14-26
Washington	State	C457	04-11-26
West Virginia (DW)	State	9906 C	03-31-26
West Virginia DEP	State	055	07-31-26
Wyoming	State	8TMS-L	01-31-26
Wyoming (UST)	A2LA	0001.01	11-30-26

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-27
ANAB	Dept. of Defense ELAP	L2305	04-06-27
ANAB	Dept. of Energy	L2305.01	04-06-27
ANAB	ISO/IEC 17025	L2305	04-06-27
Arizona	State	AZ0813	12-08-26
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	07-01-26
Connecticut	State	PH-0241	03-31-27
Florida	NELAP	E87689	06-30-26
HI - RadChem Recognition	State	n/a	06-30-26
Illinois	NELAP	200023	11-30-25 *
Iowa	State	373	12-01-26
Kansas	NELAP	E-10236	10-31-26
Kentucky (DW)	State	KY90125	12-31-25
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-25
Louisiana (All)	NELAP	106151	06-30-26
Louisiana (DW)	State	LA011	12-31-25
Maryland	State	310	10-01-26
Massachusetts	State	M-MO054	06-30-26
MI - RadChem Recognition	State	9005	06-30-26
Missouri	State	780	06-30-28
Nevada	State	MO00054	07-31-26
New Jersey	NELAP	MO002	06-30-26
New Mexico	State	MO00054	06-30-26
New York	NELAP	11616	03-31-26
North Carolina (DW)	State	29700	06-30-26
North Dakota	State	R-207	06-30-26
Oklahoma	NELAP	9997	12-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Haley & Aldrich Inc
Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
SDG: Semi-Annual

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4157	09-01-26
Pennsylvania	NELAP	68-00540	02-28-26
South Carolina	State	85002	06-30-26
Texas	NELAP	T104704193	07-31-26
US Fish & Wildlife	US Federal Programs	058448	07-31-26
USDA	US Federal Programs	525-23-138-94730	05-18-26
Utah	NELAP	MO00054	07-31-26
Virginia	NELAP	460230	06-14-26
Washington	State	C592	08-31-26
West Virginia DEP	State	381	11-30-26



Sample Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
180-198316-1	CCR-AP-1R-110525	Water	11/05/25 08:14	11/11/25 09:45	Indiana
180-198316-2	CCR-AP-11-110525	Water	11/05/25 12:50	11/11/25 09:45	Indiana
180-198316-3	CCR-AP-4R-110525	Water	11/05/25 11:30	11/11/25 09:45	Indiana
180-198316-4	CCR-AP-9-110525	Water	11/05/25 15:15	11/11/25 09:45	Indiana
180-198316-5	CCR-AP-6-110525	Water	11/05/25 13:30	11/11/25 09:45	Indiana
180-198316-6	CCR-AP-8-110525	Water	11/05/25 11:25	11/11/25 09:45	Indiana
180-198316-7	CCR-AP-5R-110525	Water	11/05/25 08:30	11/11/25 09:45	Indiana
180-198316-8	FD-PZ-2-110525	Water	11/05/25 14:25	11/11/25 09:45	Indiana
180-198316-9	MH-1-110625	Water	11/06/25 15:00	11/11/25 09:45	Indiana
180-198316-10	CCR-BK-2-110625	Water	11/06/25 16:55	11/11/25 09:45	Indiana
180-198316-11	CCR-AP-3R-110625	Water	11/06/25 16:30	11/11/25 09:45	Indiana
180-198316-12	CCR-AP-3I-110625	Water	11/06/25 14:30	11/11/25 09:45	Indiana
180-198316-13	CCR-AP-2R-110625	Water	11/06/25 11:20	11/11/25 09:45	Indiana
180-198316-14	CCR-AP-21R-110625	Water	11/06/25 08:25	11/11/25 09:45	Indiana
180-198316-15	FD-PZ-1-110625	Water	11/06/25 11:40	11/11/25 09:45	Indiana
180-198316-16	MH-2-110625	Water	11/06/25 12:25	11/11/25 09:45	Indiana
180-198316-17	CCR-AP-10-110725	Water	11/07/25 12:30	11/11/25 09:45	Indiana
180-198316-18	CCR-BK-1R-110725	Water	11/07/25 09:00	11/11/25 09:45	Indiana
180-198316-19	CCR-AP-7R-110725	Water	11/07/25 08:50	11/11/25 09:45	Indiana
180-198316-20	DUP-3-110525	Water	11/05/25 12:00	11/11/25 09:45	Indiana
180-198316-21	FB-1-110725	Water	11/07/25 13:40	11/11/25 09:45	Indiana
180-198316-22	FB-2-110725	Water	11/07/25 14:05	11/11/25 09:45	Indiana



Method Summary

Client: Haley & Aldrich Inc
Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
SDG: Semi-Annual

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-1R-110525

Lab Sample ID: 180-198316-1

Date Collected: 11/05/25 08:14

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506323	11/14/25 09:42	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730907	11/17/25 21:00	UAMX	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731573	11/18/25 07:51	MT26	ELLE
Instrument ID: T75 - 27278										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:05	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:43	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:12	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506251	11/12/25 12:18	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.11 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315		1			748729	12/10/25 09:55	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320		1			748588	12/09/25 12:17	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			749537	12/15/25 12:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: CCR-AP-11-110525

Lab Sample ID: 180-198316-2

Date Collected: 11/05/25 12:50

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506495	11/17/25 16:07	ERP	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/17/25 16:22	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730907	11/17/25 21:00	UAMX	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731573	11/18/25 07:48	MT26	ELLE
Instrument ID: T75 - 27278										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:07	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:45	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506331	11/13/25 13:33	BAB	EET PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-11-110525

Lab Sample ID: 180-198316-2

Date Collected: 11/05/25 12:50

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506251	11/12/25 12:18	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1003.15 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315		1			748729	12/10/25 09:55	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.15 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320		1			748588	12/09/25 12:17	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			749537	12/15/25 12:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: CCR-AP-4R-110525

Lab Sample ID: 180-198316-3

Date Collected: 11/05/25 11:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506388	11/15/25 06:28	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730907	11/17/25 21:00	UAMX	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731573	11/18/25 07:54	MT26	ELLE
Instrument ID: T75 - 27278										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:10	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:47	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:11	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1003.00 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315		1			748729	12/10/25 23:06	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.00 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320		1			748588	12/09/25 12:17	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			749537	12/15/25 12:56	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-9-110525

Lab Sample ID: 180-198316-4

Date Collected: 11/05/25 15:15

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506495	11/17/25 16:36	ERP	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	EPA 9056A		50	1 mL	1 mL	506495	11/17/25 16:51	ERP	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	730907	11/17/25 21:00	UAMX	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731736	11/18/25 13:58	T8CQ	ELLE
		Instrument ID: T73 - 18255								
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:13	S4FJ	EET CLE
		Instrument ID: I15								
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:49	X3ZX	ELLE
		Instrument ID: M17								
Total/NA	Analysis	EPA 9040C		1			506331	11/13/25 13:36	BAB	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			754.50 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315		1			748729	12/10/25 23:06	SWS	EET SL
		Instrument ID: GFPCBLUE								
Total/NA	Prep	PrecSep_0			754.50 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320		1			748588	12/09/25 12:17	SWS	EET SL
		Instrument ID: GFPCBLUE								
Total/NA	Analysis	Ra226_Ra228		1			749537	12/15/25 12:56	EMH	EET SL
		Instrument ID: NOEQUIP								

Client Sample ID: CCR-AP-6-110525

Lab Sample ID: 180-198316-5

Date Collected: 11/05/25 13:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		2.5	1 mL	1 mL	506388	11/15/25 06:42	ERP	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	EPA 9056A		25	1 mL	1 mL	506388	11/15/25 06:57	ERP	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731955	11/18/25 18:03	T8CQ	ELLE
		Instrument ID: T73 - 18255								
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:16	S4FJ	EET CLE
		Instrument ID: I15								
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:54	X3ZX	ELLE
		Instrument ID: M17								

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-6-110525

Lab Sample ID: 180-198316-5

Date Collected: 11/05/25 13:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:16	BAB	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	50 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1002.44 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			748729	12/10/25 23:06	SWS	EET SL
Total/NA	Prep	PrecSep_0			1002.44 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320 Instrument ID: GFPCBLUE		1			748588	12/09/25 12:17	SWS	EET SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			749537	12/15/25 12:56	EMH	EET SL

Client Sample ID: CCR-AP-8-110525

Lab Sample ID: 180-198316-6

Date Collected: 11/05/25 11:25

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A Instrument ID: INTEGRION		1	1 mL	1 mL	506388	11/15/25 07:11	ERP	EET PIT
Total/NA	Analysis	EPA 9056A Instrument ID: INTEGRION		10	1 mL	1 mL	506388	11/15/25 07:26	ERP	EET PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D Instrument ID: T74 - 23745		1			731958	11/18/25 16:42	T8CQ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B Instrument ID: I15		1			680853	11/17/25 16:19	S4FJ	EET CLE
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A Instrument ID: M17		1			733732	11/21/25 10:56	X3ZX	ELLE
Total/NA	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			506259	11/12/25 14:13	BAB	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	50 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1002.38 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315 Instrument ID: GFPCBLUE		1			748729	12/10/25 23:06	SWS	EET SL
Total/NA	Prep	PrecSep_0			1002.38 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320 Instrument ID: GFPCRED		1			748579	12/09/25 12:04	SWS	EET SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			749537	12/15/25 12:56	EMH	EET SL

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-5R-110525

Lab Sample ID: 180-198316-7

Date Collected: 11/05/25 08:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		2.5	1 mL	1 mL	506388	11/14/25 13:10	ERP	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 9056A		25	1 mL	1 mL	506388	11/14/25 13:24	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	734252	11/24/25 02:46	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			735026	11/24/25 16:11	T8CQ	ELLE
Instrument ID: T73 - 18255										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 15:45	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:36	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:08	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1008.73 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315		1			748729	12/10/25 23:06	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1008.73 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:04	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749537	12/15/25 12:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FD-PZ-2-110525

Lab Sample ID: 180-198316-8

Date Collected: 11/05/25 14:25

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506388	11/15/25 07:40	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731958	11/18/25 16:45	T8CQ	ELLE
Instrument ID: T74 - 23745										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:21	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 10:58	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:17	BAB	EET PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FD-PZ-2-110525

Lab Sample ID: 180-198316-8

Date Collected: 11/05/25 14:25

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1007.70 mL	1.0 g	745569	11/17/25 08:07	AMS	EET SL
Total/NA	Analysis	9315		1			748729	12/10/25 23:06	SWS	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1007.70 mL	1.0 g	745571	11/17/25 08:09	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:05	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749537	12/15/25 12:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: MH-1-110625

Lab Sample ID: 180-198316-9

Date Collected: 11/06/25 15:00

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506388	11/15/25 07:55	ERP	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 9056A		50	1 mL	1 mL	506388	11/15/25 08:09	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731955	11/18/25 18:06	T8CQ	ELLE
Instrument ID: T73 - 18255										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:30	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:00	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:15	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1002.49 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748718	12/10/25 23:09	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.49 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:11	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-BK-2-110625

Lab Sample ID: 180-198316-10

Date Collected: 11/06/25 16:55

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506388	11/15/25 08:24	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731958	11/18/25 16:48	T8CQ	ELLE
Instrument ID: T74 - 23745										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:32	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:02	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:14	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1005.60 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748718	12/10/25 23:09	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1005.60 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:11	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: CCR-AP-3R-110625

Lab Sample ID: 180-198316-11

Date Collected: 11/06/25 16:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506388	11/15/25 08:38	ERP	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 9056A		50	1 mL	1 mL	506388	11/15/25 09:22	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731955	11/18/25 18:09	T8CQ	ELLE
Instrument ID: T73 - 18255										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:35	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:04	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:18	BAB	EET PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-3R-110625

Lab Sample ID: 180-198316-11

Date Collected: 11/06/25 16:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1002.90 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748718	12/10/25 23:09	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.90 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:12	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: CCR-AP-3I-110625

Lab Sample ID: 180-198316-12

Date Collected: 11/06/25 14:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506388	11/15/25 09:37	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731958	11/18/25 16:58	T8CQ	ELLE
Instrument ID: T74 - 23745										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:38	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:06	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:04	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1001.72 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748718	12/10/25 23:09	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.72 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:12	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-2R-110625

Lab Sample ID: 180-198316-13

Date Collected: 11/06/25 11:20

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506388	11/15/25 10:06	ERP	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 9056A		50	1 mL	1 mL	506388	11/15/25 10:20	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731955	11/18/25 18:12	T8CQ	ELLE
Instrument ID: T73 - 18255										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:41	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:08	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:06	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1003.49 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748957	12/11/25 07:48	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.49 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:12	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: CCR-AP-21R-110625

Lab Sample ID: 180-198316-14

Date Collected: 11/06/25 08:25

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506388	11/15/25 10:35	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731958	11/18/25 17:23	T8CQ	ELLE
Instrument ID: T74 - 23745										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:44	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:09	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:05	BAB	EET PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-21R-110625

Lab Sample ID: 180-198316-14

Date Collected: 11/06/25 08:25

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1006.51 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748957	12/11/25 07:48	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.51 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:12	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FD-PZ-1-110625

Lab Sample ID: 180-198316-15

Date Collected: 11/06/25 11:40

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506388	11/15/25 11:04	ERP	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	EPA 9056A		50	1 mL	1 mL	506388	11/15/25 11:18	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731955	11/18/25 18:18	T8CQ	ELLE
Instrument ID: T73 - 18255										
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:46	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:11	X3ZX	ELLE
Instrument ID: M17										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:03	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1003.07 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748957	12/11/25 07:48	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.07 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:13	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: MH-2-110625

Lab Sample ID: 180-198316-16

Date Collected: 11/06/25 12:25

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506388	11/15/25 11:33	ERP	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	EPA 9056A		50	1 mL	1 mL	506388	11/15/25 12:16	ERP	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			731955	11/18/25 18:15	T8CQ	ELLE
		Instrument ID: T73 - 18255								
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:49	S4FJ	EET CLE
		Instrument ID: I15								
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:17	X3ZX	ELLE
		Instrument ID: M17								
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 14:01	BAB	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			1005.96 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748957	12/11/25 07:48	SWS	EET SL
		Instrument ID: GFPCRED								
Total/NA	Prep	PrecSep_0			1005.96 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748579	12/09/25 12:13	SWS	EET SL
		Instrument ID: GFPCRED								
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
		Instrument ID: NOEQUIP								

Client Sample ID: CCR-AP-10-110725

Lab Sample ID: 180-198316-17

Date Collected: 11/07/25 12:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		2.5	1 mL	1 mL	506388	11/15/25 12:31	ERP	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	EPA 9056A		25	1 mL	1 mL	506388	11/15/25 12:46	ERP	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		5			736061	11/26/25 11:45	MT26	ELLE
		Instrument ID: T73 - 18255								
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 16:52	S4FJ	EET CLE
		Instrument ID: I15								
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:19	X3ZX	ELLE
		Instrument ID: M17								

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-10-110725

Lab Sample ID: 180-198316-17

Date Collected: 11/07/25 12:30

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 13:59	BAB	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			750.52 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			748957	12/11/25 07:48	SWS	EET SL
Total/NA	Prep	PrecSep_0			750.52 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320 Instrument ID: GFPCRED		1			748579	12/09/25 12:13	SWS	EET SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			749550	12/15/25 14:56	EMH	EET SL

Client Sample ID: CCR-BK-1R-110725

Lab Sample ID: 180-198316-18

Date Collected: 11/07/25 09:00

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A Instrument ID: INTEGRION		1	1 mL	1 mL	506388	11/15/25 13:00	ERP	EET PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D Instrument ID: T73 - 18255		1			731955	11/18/25 18:24	T8CQ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B Instrument ID: I15		1			680853	11/17/25 16:55	S4FJ	EET CLE
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A Instrument ID: M17		1			733732	11/21/25 11:21	X3ZX	ELLE
Total/NA	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			506259	11/12/25 13:58	BAB	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1002.60 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			748957	12/11/25 07:49	SWS	EET SL
Total/NA	Prep	PrecSep_0			1002.60 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			748589	12/09/25 12:16	SWS	EET SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			749550	12/15/25 14:56	EMH	EET SL

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-7R-110725

Lab Sample ID: 180-198316-19

Date Collected: 11/07/25 08:50

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		2.5	1 mL	1 mL	506388	11/15/25 13:15	ERP	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	EPA 9056A		25	1 mL	1 mL	506388	11/15/25 13:29	ERP	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731958	11/18/25 16:01	T8CQ	ELLE
		Instrument ID: T74 - 23745								
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 17:03	S4FJ	EET CLE
		Instrument ID: I15								
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:23	X3ZX	ELLE
		Instrument ID: M17								
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 13:53	BAB	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Prep	PrecSep-21			1009.49 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748957	12/11/25 07:49	SWS	EET SL
		Instrument ID: GFPCRED								
Total/NA	Prep	PrecSep_0			1009.49 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748589	12/09/25 12:16	SWS	EET SL
		Instrument ID: GFPCPURPLE								
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
		Instrument ID: NOEQUIP								

Client Sample ID: DUP-3-110525

Lab Sample ID: 180-198316-20

Date Collected: 11/05/25 12:00

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506430	11/15/25 20:45	ERP	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	EPA 9056A		5	1 mL	1 mL	506430	11/15/25 21:29	ERP	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731958	11/18/25 17:33	T8CQ	ELLE
		Instrument ID: T74 - 23745								
Total Recoverable	Prep	3005A			50 mL	50 mL	680627	11/14/25 14:00	F3PF	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 17:06	S4FJ	EET CLE
		Instrument ID: I15								
Total/NA	Prep	7470A			20 mL	20 mL	733419	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A		1			733732	11/21/25 11:25	X3ZX	ELLE
		Instrument ID: M17								

Eurofins Pittsburgh

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: DUP-3-110525
Date Collected: 11/05/25 12:00
Date Received: 11/11/25 09:45

Lab Sample ID: 180-198316-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 13:52	BAB	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1007.99 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			748957	12/11/25 07:50	SWS	EET SL
Total/NA	Prep	PrecSep_0			1007.99 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			748589	12/09/25 12:16	SWS	EET SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			749550	12/15/25 14:56	EMH	EET SL

Client Sample ID: FB-1-110725
Date Collected: 11/07/25 13:40
Date Received: 11/11/25 09:45

Lab Sample ID: 180-198316-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A Instrument ID: INTEGRION		1	1 mL	1 mL	506430	11/15/25 21:43	ERP	EET PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D Instrument ID: T74 - 23745		1			731958	11/18/25 17:36	T8CQ	ELLE
Total Recoverable	Prep	3005A			50 mL	50 mL	680647	11/14/25 14:00	S4FJ	EET CLE
Total Recoverable	Analysis	EPA 6020B Instrument ID: I15		1			680853	11/17/25 13:31	S4FJ	EET CLE
Total/NA	Prep	7470A			20 mL	20 mL	733426	11/21/25 06:50	UJL8	ELLE
Total/NA	Analysis	EPA 7470A Instrument ID: M17		1			733732	11/21/25 11:47	X3ZX	ELLE
Total/NA	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			506259	11/12/25 14:02	BAB	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Total/NA	Prep	PrecSep-21			1004.17 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315 Instrument ID: GFPCRED		1			748957	12/11/25 07:50	SWS	EET SL
Total/NA	Prep	PrecSep_0			1004.17 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320 Instrument ID: GFPCPURPLE		1			748589	12/09/25 12:17	SWS	EET SL
Total/NA	Analysis	Ra226_Ra228 Instrument ID: NOEQUIP		1			749550	12/15/25 14:56	EMH	EET SL

Lab Chronicle

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FB-2-110725

Lab Sample ID: 180-198316-22

Date Collected: 11/07/25 14:05

Matrix: Water

Date Received: 11/11/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	506430	11/15/25 21:58	ERP	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	730908	11/17/25 10:52	UJL8	ELLE
Total Recoverable	Analysis	EPA 6010D		1			731955	11/18/25 18:21	T8CQ	ELLE
Instrument ID: T73 - 18255										
Total Recoverable	Prep	3005A			50 mL	50 mL	680647	11/14/25 14:00	S4FJ	EET CLE
Total Recoverable	Analysis	EPA 6020B		1			680853	11/17/25 13:34	S4FJ	EET CLE
Instrument ID: I15										
Total/NA	Prep	7470A			20 mL	20.0 mL	729836	11/14/25 12:15	RFN5	ELLE
Total/NA	Analysis	EPA 7470A		1			730291	11/14/25 20:54	IJ3I	ELLE
Instrument ID: M16										
Total/NA	Analysis	EPA 9040C		1			506259	11/12/25 13:51	BAB	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	506257	11/12/25 13:20	A1K	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1008.99 mL	1.0 g	745572	11/17/25 08:15	AMS	EET SL
Total/NA	Analysis	9315		1			748957	12/11/25 07:50	SWS	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1008.99 mL	1.0 g	745576	11/17/25 08:18	AMS	EET SL
Total/NA	Analysis	9320		1			748589	12/09/25 12:17	SWS	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			749550	12/15/25 14:56	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich Inc
Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
SDG: Semi-Annual

Analyst References:

Lab: EET CLE

Batch Type: Prep

F3PF = Brooke Lauer

S4FJ = Katherine Wise

Batch Type: Analysis

S4FJ = Katherine Wise

Lab: EET PIT

Batch Type: Analysis

A1K = Agnes Komlos

BAB = Brooke Batyi

ERP = Evan Papak

Lab: EET SL

Batch Type: Prep

AMS = Ashley Stone

Batch Type: Analysis

EMH = Elizabeth Hoerchler

SWS = Seth Stubblefield

Lab: ELLE

Batch Type: Prep

RFN5 = Aniyah Oxendine

UAMX = Annamaria Kuhns

UJL8 = James Mertz

Batch Type: Analysis

IJ3I = Elizabeth Brittingham

MT26 = Jason Knight

T8CQ = Sera Bargo

X3ZX = Skyler Ruf

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-1R-110525

Lab Sample ID: 180-198316-1

Date Collected: 11/05/25 08:14

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		1.0	0.71	mg/L			11/14/25 09:42	1
Fluoride	0.37		0.10	0.026	mg/L			11/14/25 09:42	1
Sulfate	180		1.0	0.76	mg/L			11/14/25 09:42	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.050	0.012	mg/L		11/17/25 21:00	11/18/25 07:51	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:05	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:05	1
Barium	0.074		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:05	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:05	1
Cadmium	0.00023	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:05	1
Calcium	47		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:05	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:05	1
Cobalt	0.00033	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:05	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:05	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:05	1
Molybdenum	0.0036	J	0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:05	1
Selenium	0.00093	J	0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:05	1
Thallium	0.00064	J	0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:05	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	880		10	10	mg/L			11/12/25 12:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.9	HF	0.1	0.1	SU			11/12/25 14:12	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.188	U	0.209	0.209	1.00	0.339	pCi/L	11/17/25 08:07	12/10/25 09:55	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110	11/17/25 08:07	12/10/25 09:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.24		0.459	0.473	1.00	0.558	pCi/L	11/17/25 08:09	12/09/25 12:17	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110	11/17/25 08:09	12/09/25 12:17	1

Eurofins Pittsburgh

Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-1R-110525

Lab Sample ID: 180-198316-1

Date Collected: 11/05/25 08:14

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	79.3		30 - 110	11/17/25 08:09	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	1.43		0.504	0.517	5.00	0.558	pCi/L		12/15/25 12:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-11-110525

Lab Sample ID: 180-198316-2

Date Collected: 11/05/25 12:50

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		1.0	0.71	mg/L			11/17/25 16:07	1
Fluoride	0.16		0.10	0.026	mg/L			11/17/25 16:07	1
Sulfate	460		5.0	3.8	mg/L			11/17/25 16:22	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.84		0.050	0.012	mg/L		11/17/25 21:00	11/18/25 07:48	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:07	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:07	1
Barium	0.067		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:07	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:07	1
Cadmium	0.00014	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:07	1
Calcium	150		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:07	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:07	1
Cobalt	0.00015	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:07	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:07	1
Lithium	0.0084		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:07	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:07	1
Selenium	0.0043	J	0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:07	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:07	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		10	10	mg/L			11/12/25 12:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.9	HF	0.1	0.1	SU			11/13/25 13:33	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.287	U	0.236	0.237	1.00	0.360	pCi/L	11/17/25 08:07	12/10/25 09:55	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110	11/17/25 08:07	12/10/25 09:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.597	U	0.443	0.447	1.00	0.685	pCi/L	11/17/25 08:09	12/09/25 12:17	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110	11/17/25 08:09	12/09/25 12:17	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-11-110525

Lab Sample ID: 180-198316-2

Date Collected: 11/05/25 12:50

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	83.0		30 - 110	11/17/25 08:09	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Combined Radium 226 + 228	0.884		(2σ+/-) 0.502	(2σ+/-) 0.506	5.00	0.685	pCi/L		12/15/25 12:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-4R-110525

Lab Sample ID: 180-198316-3

Date Collected: 11/05/25 11:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			11/15/25 06:28	1
Fluoride	0.33		0.10	0.026	mg/L			11/15/25 06:28	1
Sulfate	55		1.0	0.76	mg/L			11/15/25 06:28	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.046	J	0.050	0.012	mg/L		11/17/25 21:00	11/18/25 07:54	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:10	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:10	1
Barium	0.056		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:10	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:10	1
Cadmium	0.00010	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:10	1
Calcium	120		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:10	1
Chromium	0.0024	J	0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:10	1
Cobalt	0.00033	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:10	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:10	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:10	1
Molybdenum	0.0012	J	0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:10	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:10	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:10	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	630		10	10	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.1	HF	0.1	0.1	SU			11/12/25 14:11	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.269	U	0.193	0.195	1.00	0.280	pCi/L	11/17/25 08:07	12/10/25 23:06	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110	11/17/25 08:07	12/10/25 23:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.450	U	0.392	0.394	1.00	0.615	pCi/L	11/17/25 08:09	12/09/25 12:17	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		30 - 110	11/17/25 08:09	12/09/25 12:17	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-4R-110525

Lab Sample ID: 180-198316-3

Date Collected: 11/05/25 11:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/17/25 08:09	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Combined Radium 226 + 228	0.718		0.437	0.440	5.00	0.615	pCi/L		12/15/25 12:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-9-110525

Lab Sample ID: 180-198316-4

Date Collected: 11/05/25 15:15

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		50	36	mg/L			11/17/25 16:51	50
Fluoride	0.47	J	0.50	0.13	mg/L			11/17/25 16:36	5
Sulfate	5600		50	38	mg/L			11/17/25 16:51	50

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.7		0.25	0.060	mg/L		11/17/25 21:00	11/18/25 13:58	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:13	1
Arsenic	0.010		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:13	1
Barium	0.052		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:13	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:13	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:13	1
Calcium	410		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:13	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:13	1
Cobalt	0.00026	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:13	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:13	1
Lithium	0.036		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:13	1
Molybdenum	0.014		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:13	1
Selenium	0.0011	J	0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:13	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:13	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	10000		200	200	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.8	HF	0.1	0.1	SU			11/13/25 13:36	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.222	U	0.222	0.223	1.00	0.351	pCi/L	11/17/25 08:07	12/10/25 23:06	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110	11/17/25 08:07	12/10/25 23:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.07		0.557	0.566	1.00	0.779	pCi/L	11/17/25 08:09	12/09/25 12:17	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110	11/17/25 08:09	12/09/25 12:17	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-9-110525

Lab Sample ID: 180-198316-4

Date Collected: 11/05/25 15:15

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/17/25 08:09	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	1.29		0.600	0.608	5.00	0.779	pCi/L		12/15/25 12:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-6-110525

Lab Sample ID: 180-198316-5

Date Collected: 11/05/25 13:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	250		2.5	1.8	mg/L			11/15/25 06:42	2.5
Fluoride	0.15	J	0.25	0.065	mg/L			11/15/25 06:42	2.5
Sulfate	1700		25	19	mg/L			11/15/25 06:57	25

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.1		0.25	0.060	mg/L		11/17/25 10:52	11/18/25 18:03	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:16	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:16	1
Barium	0.011		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:16	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:16	1
Cadmium	0.00015	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:16	1
Calcium	170		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:16	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:16	1
Cobalt	0.00022	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:16	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:16	1
Lithium	0.0077	J	0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:16	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:16	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:16	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:16	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3000		20	20	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.7	HF	0.1	0.1	SU			11/12/25 14:16	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101	U	0.150	0.150	1.00	0.256	pCi/L	11/17/25 08:07	12/10/25 23:06	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		30 - 110	11/17/25 08:07	12/10/25 23:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.659	U	0.504	0.508	1.00	0.787	pCi/L	11/17/25 08:09	12/09/25 12:17	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		30 - 110	11/17/25 08:09	12/09/25 12:17	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-6-110525

Lab Sample ID: 180-198316-5

Date Collected: 11/05/25 13:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	79.3		30 - 110	11/17/25 08:09	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.761	U	0.526	0.530	5.00	0.787	pCi/L		12/15/25 12:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-8-110525

Lab Sample ID: 180-198316-6

Date Collected: 11/05/25 11:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85		1.0	0.71	mg/L			11/15/25 07:11	1
Fluoride	0.18		0.10	0.026	mg/L			11/15/25 07:11	1
Sulfate	1000		10	7.6	mg/L			11/15/25 07:26	10

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 16:42	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:19	1
Arsenic	0.0018	J	0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:19	1
Barium	0.039		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:19	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:19	1
Cadmium	0.00013	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:19	1
Calcium	260		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:19	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:19	1
Cobalt	0.0021		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:19	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:19	1
Lithium	0.013		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:19	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:19	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:19	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:19	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2200		20	20	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.8	HF	0.1	0.1	SU			11/12/25 14:13	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122	U	0.142	0.142	1.00	0.230	pCi/L	11/17/25 08:07	12/10/25 23:06	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		30 - 110	11/17/25 08:07	12/10/25 23:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.908		0.443	0.451	1.00	0.599	pCi/L	11/17/25 08:09	12/09/25 12:04	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		30 - 110	11/17/25 08:09	12/09/25 12:04	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-8-110525

Lab Sample ID: 180-198316-6

Date Collected: 11/05/25 11:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/17/25 08:09	12/09/25 12:04	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	1.03		0.465	0.473	5.00	0.599	pCi/L		12/15/25 12:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-5R-110525

Lab Sample ID: 180-198316-7

Date Collected: 11/05/25 08:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		2.5	1.8	mg/L			11/14/25 13:10	2.5
Fluoride	0.35		0.25	0.065	mg/L			11/14/25 13:10	2.5
Sulfate	3800		25	19	mg/L			11/14/25 13:24	25

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		0.25	0.060	mg/L		11/24/25 02:46	11/24/25 16:11	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 15:45	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 15:45	1
Barium	0.018		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 15:45	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 15:45	1
Cadmium	0.0032		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 15:45	1
Calcium	450		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 15:45	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 15:45	1
Cobalt	0.00023	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 15:45	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 15:45	1
Lithium	0.013		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 15:45	1
Molybdenum	0.22		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 15:45	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 15:45	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 15:45	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6300		40	40	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.1	HF	0.1	0.1	SU			11/12/25 14:08	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.821		0.242	0.253	1.00	0.205	pCi/L	11/17/25 08:07	12/10/25 23:06	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110	11/17/25 08:07	12/10/25 23:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.620		0.384	0.388	1.00	0.563	pCi/L	11/17/25 08:09	12/09/25 12:04	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		30 - 110	11/17/25 08:09	12/09/25 12:04	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-5R-110525

Lab Sample ID: 180-198316-7

Date Collected: 11/05/25 08:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	80.0		30 - 110	11/17/25 08:09	12/09/25 12:04	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Combined Radium 226 + 228	1.44		0.454	0.463	5.00	0.563	pCi/L		12/15/25 12:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FD-PZ-2-110525

Lab Sample ID: 180-198316-8

Date Collected: 11/05/25 14:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.6		1.0	0.71	mg/L			11/15/25 07:40	1
Fluoride	0.16		0.10	0.026	mg/L			11/15/25 07:40	1
Sulfate	13		1.0	0.76	mg/L			11/15/25 07:40	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.052		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 16:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:21	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:21	1
Barium	0.11		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:21	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:21	1
Cadmium	0.00026	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:21	1
Calcium	100		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:21	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:21	1
Cobalt	0.00051	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:21	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:21	1
Lithium	0.0053	J	0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:21	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:21	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:21	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:21	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	480		10	10	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.1	HF	0.1	0.1	SU			11/12/25 14:17	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.470		0.191	0.195	1.00	0.192	pCi/L	11/17/25 08:07	12/10/25 23:06	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110	11/17/25 08:07	12/10/25 23:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.652	U	0.434	0.438	1.00	0.656	pCi/L	11/17/25 08:09	12/09/25 12:05	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110	11/17/25 08:09	12/09/25 12:05	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FD-PZ-2-110525

Lab Sample ID: 180-198316-8

Date Collected: 11/05/25 14:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	79.6		30 - 110	11/17/25 08:09	12/09/25 12:05	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Combined Radium 226 + 228	1.12		(2σ+/-) 0.474	(2σ+/-) 0.479	5.00	0.656	pCi/L		12/15/25 12:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: MH-1-110625

Lab Sample ID: 180-198316-9

Date Collected: 11/06/25 15:00

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		5.0	3.6	mg/L			11/15/25 07:55	5
Fluoride	0.45	J	0.50	0.13	mg/L			11/15/25 07:55	5
Sulfate	3100		50	38	mg/L			11/15/25 08:09	50

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		0.25	0.060	mg/L		11/17/25 10:52	11/18/25 18:06	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:30	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:30	1
Barium	0.019		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:30	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:30	1
Cadmium	0.00019	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:30	1
Calcium	330		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:30	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:30	1
Cobalt	0.0019		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:30	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:30	1
Lithium	0.031		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:30	1
Molybdenum	1.3		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:30	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:30	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:30	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5200		40	40	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.2	HF	0.1	0.1	SU			11/12/25 14:15	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Total Uncert. (2σ+/-)						
Radium-226	-0.00445	U	0.0825	0.0825	1.00	0.183	pCi/L	11/17/25 08:15	12/10/25 23:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					11/17/25 08:15	12/10/25 23:09	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Total Uncert. (2σ+/-)						
Radium-228	1.14		0.474	0.485	1.00	0.623	pCi/L	11/17/25 08:18	12/09/25 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					11/17/25 08:18	12/09/25 12:11	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: MH-1-110625

Lab Sample ID: 180-198316-9

Date Collected: 11/06/25 15:00

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	77.8		30 - 110	11/17/25 08:18	12/09/25 12:11	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Combined Radium 226 + 228	1.13		0.481	0.492	5.00	0.623	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-BK-2-110625

Lab Sample ID: 180-198316-10

Date Collected: 11/06/25 16:55

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		1.0	0.71	mg/L			11/15/25 08:24	1
Fluoride	0.15		0.10	0.026	mg/L			11/15/25 08:24	1
Sulfate	23		1.0	0.76	mg/L			11/15/25 08:24	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 16:48	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:32	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:32	1
Barium	0.032		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:32	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:32	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:32	1
Calcium	39		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:32	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:32	1
Cobalt	ND		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:32	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:32	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:32	1
Molybdenum	0.0014	J	0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:32	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:32	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:32	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	240		10	10	mg/L			11/12/25 13:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.8	HF	0.1	0.1	SU			11/12/25 14:14	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259		0.174	0.176	1.00	0.235	pCi/L	11/17/25 08:15	12/10/25 23:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		30 - 110					11/17/25 08:15	12/10/25 23:09	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.392	U	0.417	0.418	1.00	0.677	pCi/L	11/17/25 08:18	12/09/25 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		30 - 110					11/17/25 08:18	12/09/25 12:11	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-BK-2-110625

Lab Sample ID: 180-198316-10

Date Collected: 11/06/25 16:55

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.5		30 - 110	11/17/25 08:18	12/09/25 12:11	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.650	U	0.452	0.454	5.00	0.677	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-3R-110625

Lab Sample ID: 180-198316-11

Date Collected: 11/06/25 16:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	560		5.0	3.6	mg/L			11/15/25 08:38	5
Fluoride	1.2		0.50	0.13	mg/L			11/15/25 08:38	5
Sulfate	4200		50	38	mg/L			11/15/25 09:22	50

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		0.25	0.060	mg/L		11/17/25 10:52	11/18/25 18:09	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:35	1
Arsenic	0.0013	J	0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:35	1
Barium	0.019		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:35	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:35	1
Cadmium	0.000080	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:35	1
Calcium	290		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:35	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:35	1
Cobalt	0.0017		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:35	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:35	1
Lithium	0.045		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:35	1
Molybdenum	0.58		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:35	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:35	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:35	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	7100		50	50	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.1	HF	0.1	0.1	SU			11/12/25 14:18	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217	U	0.161	0.162	1.00	0.230	pCi/L	11/17/25 08:15	12/10/25 23:09	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110	11/17/25 08:15	12/10/25 23:09	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.915		0.427	0.435	1.00	0.571	pCi/L	11/17/25 08:18	12/09/25 12:12	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110	11/17/25 08:18	12/09/25 12:12	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-3R-110625

Lab Sample ID: 180-198316-11

Date Collected: 11/06/25 16:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	79.6		30 - 110	11/17/25 08:18	12/09/25 12:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Combined Radium 226 + 228	1.13		0.456	0.464	5.00	0.571	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-3I-110625

Lab Sample ID: 180-198316-12

Date Collected: 11/06/25 14:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		1.0	0.71	mg/L			11/15/25 09:37	1
Fluoride	1.6		0.10	0.026	mg/L			11/15/25 09:37	1
Sulfate	14		1.0	0.76	mg/L			11/15/25 09:37	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.2		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 16:58	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:38	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:38	1
Barium	0.16		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:38	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:38	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:38	1
Calcium	14		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:38	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:38	1
Cobalt	ND		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:38	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:38	1
Lithium	0.021		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:38	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:38	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:38	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:38	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	770		10	10	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	8.1	HF	0.1	0.1	SU			11/12/25 14:04	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.163	U	0.150	0.151	1.00	0.229	pCi/L	11/17/25 08:15	12/10/25 23:09	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110	11/17/25 08:15	12/10/25 23:09	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.730		0.387	0.393	1.00	0.529	pCi/L	11/17/25 08:18	12/09/25 12:12	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110	11/17/25 08:18	12/09/25 12:12	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-3I-110625

Lab Sample ID: 180-198316-12

Date Collected: 11/06/25 14:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/17/25 08:18	12/09/25 12:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.893		0.415	0.421	5.00	0.529	pCi/L		12/15/25 14:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-2R-110625

Lab Sample ID: 180-198316-13

Date Collected: 11/06/25 11:20

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		5.0	3.6	mg/L			11/15/25 10:06	5
Fluoride	0.36	J	0.50	0.13	mg/L			11/15/25 10:06	5
Sulfate	2900		50	38	mg/L			11/15/25 10:20	50

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10		0.25	0.060	mg/L		11/17/25 10:52	11/18/25 18:12	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:41	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:41	1
Barium	0.046		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:41	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:41	1
Cadmium	0.00035	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:41	1
Calcium	340		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:41	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:41	1
Cobalt	0.0018		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:41	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:41	1
Lithium	0.026		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:41	1
Molybdenum	1.3		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:41	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:41	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:41	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4900		40	40	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.9	HF	0.1	0.1	SU			11/12/25 14:06	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.423		0.185	0.189	1.00	0.200	pCi/L	11/17/25 08:15	12/11/25 07:48	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110	11/17/25 08:15	12/11/25 07:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.34		0.482	0.497	1.00	0.571	pCi/L	11/17/25 08:18	12/09/25 12:12	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.4		30 - 110	11/17/25 08:18	12/09/25 12:12	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-2R-110625

Lab Sample ID: 180-198316-13

Date Collected: 11/06/25 11:20

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	80.7		30 - 110	11/17/25 08:18	12/09/25 12:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Combined Radium 226 + 228	1.76		0.516	0.532	5.00	0.571	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-21R-110625

Lab Sample ID: 180-198316-14

Date Collected: 11/06/25 08:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.71	mg/L			11/15/25 10:35	1
Fluoride	0.66		0.10	0.026	mg/L			11/15/25 10:35	1
Sulfate	190		1.0	0.76	mg/L			11/15/25 10:35	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 17:23	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:44	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:44	1
Barium	0.054		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:44	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:44	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:44	1
Calcium	70		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:44	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:44	1
Cobalt	0.00052	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:44	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:44	1
Lithium	0.017		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:44	1
Molybdenum	0.0017	J	0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:44	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:44	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:44	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10	10	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.3	HF	0.1	0.1	SU			11/12/25 14:05	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.409		0.170	0.174	1.00	0.169	pCi/L	11/17/25 08:15	12/11/25 07:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					11/17/25 08:15	12/11/25 07:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.18		0.481	0.494	1.00	0.621	pCi/L	11/17/25 08:18	12/09/25 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.7		30 - 110					11/17/25 08:18	12/09/25 12:12	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-21R-110625

Lab Sample ID: 180-198316-14

Date Collected: 11/06/25 08:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	79.6		30 - 110	11/17/25 08:18	12/09/25 12:12	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	1.59		0.510	0.524	5.00	0.621	pCi/L		12/15/25 14:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FD-PZ-1-110625

Lab Sample ID: 180-198316-15

Date Collected: 11/06/25 11:40

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		5.0	3.6	mg/L			11/15/25 11:04	5
Fluoride	0.50		0.50	0.13	mg/L			11/15/25 11:04	5
Sulfate	3400		50	38	mg/L			11/15/25 11:18	50

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		0.25	0.060	mg/L		11/17/25 10:52	11/18/25 18:18	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:46	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:46	1
Barium	0.019		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:46	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:46	1
Cadmium	0.00014	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:46	1
Calcium	370		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:46	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:46	1
Cobalt	0.00097	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:46	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:46	1
Lithium	0.030		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:46	1
Molybdenum	0.44		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:46	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:46	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:46	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5700		40	40	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.3	HF	0.1	0.1	SU			11/12/25 14:03	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.231		0.162	0.163	1.00	0.225	pCi/L	11/17/25 08:15	12/11/25 07:48	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		30 - 110	11/17/25 08:15	12/11/25 07:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.176	U	0.343	0.343	1.00	0.598	pCi/L	11/17/25 08:18	12/09/25 12:13	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	75.5		30 - 110	11/17/25 08:18	12/09/25 12:13	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FD-PZ-1-110625

Lab Sample ID: 180-198316-15

Date Collected: 11/06/25 11:40

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	82.2		30 - 110	11/17/25 08:18	12/09/25 12:13	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.407	U	0.379	0.380	5.00	0.598	pCi/L		12/15/25 14:56	1



Client Sample Results

Client: Haley & Aldrich Inc
Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
SDG: Semi-Annual

Client Sample ID: MH-2-110625

Lab Sample ID: 180-198316-16

Date Collected: 11/06/25 12:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		5.0	3.6	mg/L			11/15/25 11:33	5
Fluoride	0.56		0.50	0.13	mg/L			11/15/25 11:33	5
Sulfate	3300		50	38	mg/L			11/15/25 12:16	50

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		0.25	0.060	mg/L		11/17/25 10:52	11/18/25 18:15	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:49	1
Arsenic	0.00093	J	0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:49	1
Barium	0.013		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:49	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:49	1
Cadmium	0.00051	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:49	1
Calcium	340		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:49	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:49	1
Cobalt	0.00072	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:49	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:49	1
Lithium	0.025		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:49	1
Molybdenum	1.0		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:49	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:49	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:49	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5700		40	40	mg/L			11/12/25 13:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.2	HF	0.1	0.1	SU			11/12/25 14:01	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0527	U	0.105	0.105	1.00	0.189	pCi/L	11/17/25 08:15	12/11/25 07:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					11/17/25 08:15	12/11/25 07:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.00469	U	0.283	0.283	1.00	0.537	pCi/L	11/17/25 08:18	12/09/25 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					11/17/25 08:18	12/09/25 12:13	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: MH-2-110625

Lab Sample ID: 180-198316-16

Date Collected: 11/06/25 12:25

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/17/25 08:18	12/09/25 12:13	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.0480	U	0.302	0.302	5.00	0.537	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-10-110725

Lab Sample ID: 180-198316-17

Date Collected: 11/07/25 12:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		2.5	1.8	mg/L			11/15/25 12:31	2.5
Fluoride	0.48		0.25	0.065	mg/L			11/15/25 12:31	2.5
Sulfate	2200		25	19	mg/L			11/15/25 12:46	25

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.3		0.25	0.060	mg/L		11/17/25 10:52	11/26/25 11:45	5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:52	1
Arsenic	0.0018	J	0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:52	1
Barium	0.024		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:52	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:52	1
Cadmium	0.000091	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:52	1
Calcium	330		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:52	1
Chromium	0.0030	J	0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:52	1
Cobalt	0.0022		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:52	1
Lead	0.0019		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:52	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:52	1
Molybdenum	0.0032	J	0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:52	1
Selenium	0.0019	J	0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:52	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:52	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3800		40	40	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	7.1	HF	0.1	0.1	SU			11/12/25 13:59	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219	U	0.179	0.180	1.00	0.260	pCi/L	11/17/25 08:15	12/11/25 07:48	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110	11/17/25 08:15	12/11/25 07:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.48		0.612	0.627	1.00	0.792	pCi/L	11/17/25 08:18	12/09/25 12:13	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		30 - 110	11/17/25 08:18	12/09/25 12:13	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-10-110725

Lab Sample ID: 180-198316-17

Date Collected: 11/07/25 12:30

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.9		30 - 110	11/17/25 08:18	12/09/25 12:13	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	1.70		0.638	0.652	5.00	0.792	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-BK-1R-110725

Lab Sample ID: 180-198316-18

Date Collected: 11/07/25 09:00

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			11/15/25 13:00	1
Fluoride	0.21		0.10	0.026	mg/L			11/15/25 13:00	1
Sulfate	58		1.0	0.76	mg/L			11/15/25 13:00	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 18:24	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 16:55	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 16:55	1
Barium	0.10		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 16:55	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 16:55	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 16:55	1
Calcium	48		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 16:55	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 16:55	1
Cobalt	0.00013	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 16:55	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 16:55	1
Lithium	0.0093		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 16:55	1
Molybdenum	0.0015	J	0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 16:55	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 16:55	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 16:55	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	300		10	10	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.9	HF	0.1	0.1	SU			11/12/25 13:58	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.308		0.169	0.171	1.00	0.212	pCi/L	11/17/25 08:15	12/11/25 07:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		30 - 110					11/17/25 08:15	12/11/25 07:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.126	U	0.380	0.380	1.00	0.675	pCi/L	11/17/25 08:18	12/09/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		30 - 110					11/17/25 08:18	12/09/25 12:16	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-BK-1R-110725

Lab Sample ID: 180-198316-18

Date Collected: 11/07/25 09:00

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	78.1		30 - 110	11/17/25 08:18	12/09/25 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.434	U	0.416	0.417	5.00	0.675	pCi/L		12/15/25 14:56	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-7R-110725

Lab Sample ID: 180-198316-19

Date Collected: 11/07/25 08:50

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		2.5	1.8	mg/L			11/15/25 13:15	2.5
Fluoride	0.18	J	0.25	0.065	mg/L			11/15/25 13:15	2.5
Sulfate	2200		25	19	mg/L			11/15/25 13:29	25

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.1		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 16:01	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 17:03	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 17:03	1
Barium	0.024		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 17:03	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 17:03	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 17:03	1
Calcium	290		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 17:03	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 17:03	1
Cobalt	0.00016	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 17:03	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 17:03	1
Lithium	0.014		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 17:03	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 17:03	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 17:03	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 17:03	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3600		40	40	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.5	HF	0.1	0.1	SU			11/12/25 13:53	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.306		0.156	0.159	1.00	0.179	pCi/L	11/17/25 08:15	12/11/25 07:49	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110	11/17/25 08:15	12/11/25 07:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.757		0.408	0.414	1.00	0.570	pCi/L	11/17/25 08:18	12/09/25 12:16	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110	11/17/25 08:18	12/09/25 12:16	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: CCR-AP-7R-110725

Lab Sample ID: 180-198316-19

Date Collected: 11/07/25 08:50

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	80.7		30 - 110	11/17/25 08:18	12/09/25 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	1.06		0.437	0.443	5.00	0.570	pCi/L		12/15/25 14:56	1

- 1
- 2
- 3
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- 11
- 12
- 13

Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: DUP-3-110525

Lab Sample ID: 180-198316-20

Date Collected: 11/05/25 12:00

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80		1.0	0.71	mg/L			11/15/25 20:45	1
Fluoride	0.14		0.10	0.026	mg/L			11/15/25 20:45	1
Sulfate	490		5.0	3.8	mg/L			11/15/25 21:29	5

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.77		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 17:33	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 17:06	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 17:06	1
Barium	0.065		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 17:06	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 17:06	1
Cadmium	0.00014	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 17:06	1
Calcium	150		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 17:06	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 17:06	1
Cobalt	0.00016	J	0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 17:06	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 17:06	1
Lithium	0.0080		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 17:06	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 17:06	1
Selenium	0.0040	J	0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 17:06	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 17:06	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		10	10	mg/L			11/12/25 13:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	6.9	HF	0.1	0.1	SU			11/12/25 13:52	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.120	0.120	1.00	0.192	pCi/L	11/17/25 08:15	12/11/25 07:50	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	74.7		30 - 110	11/17/25 08:15	12/11/25 07:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.353	U	0.434	0.435	1.00	0.719	pCi/L	11/17/25 08:18	12/09/25 12:16	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	74.7		30 - 110	11/17/25 08:18	12/09/25 12:16	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: DUP-3-110525

Lab Sample ID: 180-198316-20

Date Collected: 11/05/25 12:00

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	77.8		30 - 110	11/17/25 08:18	12/09/25 12:16	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.458	U	0.450	0.451	5.00	0.719	pCi/L		12/15/25 14:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FB-1-110725

Lab Sample ID: 180-198316-21

Date Collected: 11/07/25 13:40

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/15/25 21:43	1
Fluoride	ND		0.10	0.026	mg/L			11/15/25 21:43	1
Sulfate	ND		1.0	0.76	mg/L			11/15/25 21:43	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.014	J	0.050	0.012	mg/L		11/17/25 10:52	11/18/25 17:36	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 13:31	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 13:31	1
Barium	ND		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 13:31	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 13:31	1
Cadmium	0.00014	J	0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 13:31	1
Calcium	ND		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 13:31	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 13:31	1
Cobalt	ND		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 13:31	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 13:31	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 13:31	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 13:31	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 13:31	1
Thallium	0.00071	J	0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 13:31	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND		10	10	mg/L			11/12/25 13:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	5.6	HF	0.1	0.1	SU			11/12/25 14:02	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0735	U	0.118	0.118	1.00	0.206	pCi/L	11/17/25 08:15	12/11/25 07:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		30 - 110					11/17/25 08:15	12/11/25 07:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.701		0.420	0.425	1.00	0.608	pCi/L	11/17/25 08:18	12/09/25 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		30 - 110					11/17/25 08:18	12/09/25 12:17	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FB-1-110725

Lab Sample ID: 180-198316-21

Date Collected: 11/07/25 13:40

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	83.4		30 - 110	11/17/25 08:18	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Combined Radium 226 + 228	0.775		0.436	0.441	5.00	0.608	pCi/L		12/15/25 14:56	1



Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FB-2-110725

Lab Sample ID: 180-198316-22

Date Collected: 11/07/25 14:05

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/15/25 21:58	1
Fluoride	ND		0.10	0.026	mg/L			11/15/25 21:58	1
Sulfate	ND		1.0	0.76	mg/L			11/15/25 21:58	1

Method: SW846 EPA 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 18:21	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 13:34	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 13:34	1
Barium	ND		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 13:34	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 13:34	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 13:34	1
Calcium	ND		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 13:34	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 13:34	1
Cobalt	ND		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 13:34	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 13:34	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 13:34	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 13:34	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 13:34	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 13:34	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/14/25 12:15	11/14/25 20:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	ND		10	10	mg/L			11/12/25 13:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 EPA 9040C)	5.6	HF	0.1	0.1	SU			11/12/25 13:51	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0172	U	0.118	0.118	1.00	0.233	pCi/L	11/17/25 08:15	12/11/25 07:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		30 - 110					11/17/25 08:15	12/11/25 07:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.518	U	0.417	0.420	1.00	0.646	pCi/L	11/17/25 08:18	12/09/25 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		30 - 110					11/17/25 08:18	12/09/25 12:17	1

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Client Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Client Sample ID: FB-2-110725

Lab Sample ID: 180-198316-22

Date Collected: 11/07/25 14:05

Matrix: Water

Date Received: 11/11/25 09:45

Method: SW846 9320 - Radium-228 (GFPC) (Continued)

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	81.1		30 - 110	11/17/25 08:18	12/09/25 12:17	1

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.535	U	0.433	0.436	5.00	0.646	pCi/L		12/15/25 14:56	1



QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-506323/54
Matrix: Water
Analysis Batch: 506323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/14/25 00:15	1
Fluoride	ND		0.10	0.026	mg/L			11/14/25 00:15	1
Sulfate	ND		1.0	0.76	mg/L			11/14/25 00:15	1

Lab Sample ID: LCS 180-506323/55
Matrix: Water
Analysis Batch: 506323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.9		mg/L		98	80 - 120
Fluoride	2.50	2.62		mg/L		105	80 - 120
Sulfate	50.0	50.3		mg/L		101	80 - 120

Lab Sample ID: MB 180-506388/6
Matrix: Water
Analysis Batch: 506388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/14/25 12:41	1
Fluoride	ND		0.10	0.026	mg/L			11/14/25 12:41	1
Sulfate	ND		1.0	0.76	mg/L			11/14/25 12:41	1

Lab Sample ID: MB 180-506388/71
Matrix: Water
Analysis Batch: 506388

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/15/25 04:46	1
Fluoride	ND		0.10	0.026	mg/L			11/15/25 04:46	1
Sulfate	ND		1.0	0.76	mg/L			11/15/25 04:46	1

Lab Sample ID: LCS 180-506388/7
Matrix: Water
Analysis Batch: 506388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.4		mg/L		99	80 - 120
Fluoride	2.50	2.65		mg/L		106	80 - 120
Sulfate	50.0	51.0		mg/L		102	80 - 120

Lab Sample ID: LCS 180-506388/72
Matrix: Water
Analysis Batch: 506388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.2		mg/L		100	80 - 120
Fluoride	2.50	2.68		mg/L		107	80 - 120
Sulfate	50.0	51.6		mg/L		103	80 - 120

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QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-198316-7 MS
Matrix: Water
Analysis Batch: 506388

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	510		1250	1720		mg/L		97	80 - 120
Fluoride	ND		62.5	65.2		mg/L		104	80 - 120
Sulfate	3800		1250	4840		mg/L		82	80 - 120

Lab Sample ID: 180-198316-7 MSD
Matrix: Water
Analysis Batch: 506388

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	510		1250	1720		mg/L		97	80 - 120	0	15
Fluoride	ND		62.5	65.6		mg/L		105	80 - 120	1	15
Sulfate	3800		1250	4840		mg/L		82	80 - 120	0	15

Lab Sample ID: MB 180-506430/6
Matrix: Water
Analysis Batch: 506430

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/15/25 15:40	1
Fluoride	ND		0.10	0.026	mg/L			11/15/25 15:40	1
Sulfate	ND		1.0	0.76	mg/L			11/15/25 15:40	1

Lab Sample ID: LCS 180-506430/7
Matrix: Water
Analysis Batch: 506430

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.8		mg/L		98	80 - 120
Fluoride	2.50	2.61		mg/L		104	80 - 120
Sulfate	50.0	50.2		mg/L		100	80 - 120

Lab Sample ID: MB 180-506495/6
Matrix: Water
Analysis Batch: 506495

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0	0.71	mg/L			11/17/25 12:05	1
Fluoride	ND		0.10	0.026	mg/L			11/17/25 12:05	1
Sulfate	ND		1.0	0.76	mg/L			11/17/25 12:05	1

Lab Sample ID: LCS 180-506495/7
Matrix: Water
Analysis Batch: 506495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.5		mg/L		97	80 - 120
Fluoride	2.50	2.59		mg/L		104	80 - 120
Sulfate	50.0	49.8		mg/L		100	80 - 120

QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 6010D - Metals (ICP)

Lab Sample ID: MB 410-730907/1-A
Matrix: Water
Analysis Batch: 731573

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 730907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/17/25 21:00	11/18/25 06:56	1

Lab Sample ID: LCS 410-730907/2-A
Matrix: Water
Analysis Batch: 731573

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.536		mg/L		107	83 - 119

Lab Sample ID: MB 410-730908/1-A
Matrix: Water
Analysis Batch: 731958

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 730908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/17/25 10:52	11/18/25 15:55	1

Lab Sample ID: LCS 410-730908/2-A
Matrix: Water
Analysis Batch: 731958

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.532		mg/L		106	83 - 119

Lab Sample ID: 180-198316-19 MS
Matrix: Water
Analysis Batch: 731958

Client Sample ID: CCR-AP-7R-110725
Prep Type: Total Recoverable
Prep Batch: 730908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	4.1		0.500	4.56	E 4	mg/L		98	75 - 125

Lab Sample ID: 180-198316-19 MSD
Matrix: Water
Analysis Batch: 731958

Client Sample ID: CCR-AP-7R-110725
Prep Type: Total Recoverable
Prep Batch: 730908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	4.1		0.500	4.45	4	mg/L		78	75 - 125	2	20

Lab Sample ID: 180-198316-19 DU
Matrix: Water
Analysis Batch: 731958

Client Sample ID: CCR-AP-7R-110725
Prep Type: Total Recoverable
Prep Batch: 730908

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	4.1		3.97		mg/L		2	20

Lab Sample ID: MB 410-734252/1-A
Matrix: Water
Analysis Batch: 735026

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.012	mg/L		11/24/25 02:46	11/24/25 15:27	1

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QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 6010D - Metals (ICP)

Lab Sample ID: LCS 410-734252/2-A
Matrix: Water
Analysis Batch: 735026

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 734252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.500	0.518		mg/L		104	83 - 119

Lab Sample ID: 180-198316-7 MS
Matrix: Water
Analysis Batch: 735026

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total Recoverable
Prep Batch: 734252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	13		0.500	14.5	4	mg/L		234	75 - 125

Lab Sample ID: 180-198316-7 MSD
Matrix: Water
Analysis Batch: 735026

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total Recoverable
Prep Batch: 734252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	13		0.500	14.9	4	mg/L		297	75 - 125	2	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-680627/1-A
Matrix: Water
Analysis Batch: 680853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 680627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 15:40	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 15:40	1
Barium	ND		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 15:40	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 15:40	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 15:40	1
Calcium	ND		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 15:40	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 15:40	1
Cobalt	ND		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 15:40	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 15:40	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 15:40	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 15:40	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 15:40	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 15:40	1

Lab Sample ID: LCS 240-680627/2-A
Matrix: Water
Analysis Batch: 680853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 680627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0983		mg/L		98	80 - 120
Arsenic	1.00	0.983		mg/L		98	80 - 120
Barium	1.00	0.984		mg/L		98	80 - 120
Beryllium	0.500	0.506		mg/L		101	80 - 120
Cadmium	0.500	0.480		mg/L		96	80 - 120
Calcium	25.0	25.0		mg/L		100	80 - 120
Chromium	0.500	0.519		mg/L		104	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120

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QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-680627/2-A
Matrix: Water
Analysis Batch: 680853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 680627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.554		mg/L		111	80 - 120
Molybdenum	0.500	0.480		mg/L		96	80 - 120
Selenium	1.00	0.998		mg/L		100	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: 180-198316-7 MS
Matrix: Water
Analysis Batch: 680853

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total Recoverable
Prep Batch: 680627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.100	0.0946		mg/L		95	80 - 120
Arsenic	ND		1.00	0.992		mg/L		99	80 - 120
Barium	0.018		1.00	0.967		mg/L		95	80 - 120
Beryllium	ND		0.500	0.463		mg/L		93	80 - 120
Cadmium	0.0032		0.500	0.438		mg/L		87	80 - 120
Calcium	450		25.0	461	4	mg/L		61	80 - 120
Chromium	ND		0.500	0.481		mg/L		96	80 - 120
Cobalt	0.00023	J	0.500	0.510		mg/L		102	80 - 120
Lead	ND		0.500	0.464		mg/L		93	80 - 120
Lithium	0.013		0.500	0.548		mg/L		107	80 - 120
Molybdenum	0.22		0.500	0.703		mg/L		97	80 - 120
Selenium	ND		1.00	0.910		mg/L		91	80 - 120
Thallium	ND		1.00	0.932		mg/L		93	80 - 120

Lab Sample ID: 180-198316-7 MSD
Matrix: Water
Analysis Batch: 680853

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total Recoverable
Prep Batch: 680627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	ND		0.100	0.0965		mg/L		97	80 - 120	2	20
Arsenic	ND		1.00	1.00		mg/L		100	80 - 120	1	20
Barium	0.018		1.00	0.981		mg/L		96	80 - 120	1	20
Beryllium	ND		0.500	0.464		mg/L		93	80 - 120	0	20
Cadmium	0.0032		0.500	0.447		mg/L		89	80 - 120	2	20
Calcium	450		25.0	464	4	mg/L		72	80 - 120	1	20
Chromium	ND		0.500	0.491		mg/L		98	80 - 120	2	20
Cobalt	0.00023	J	0.500	0.511		mg/L		102	80 - 120	0	20
Lead	ND		0.500	0.478		mg/L		96	80 - 120	3	20
Lithium	0.013		0.500	0.544		mg/L		106	80 - 120	1	20
Molybdenum	0.22		0.500	0.707		mg/L		98	80 - 120	1	20
Selenium	ND		1.00	0.933		mg/L		93	80 - 120	3	20
Thallium	ND		1.00	0.947		mg/L		95	80 - 120	2	20

QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 240-680647/1-A
Matrix: Water
Analysis Batch: 680853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 680647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0020	0.00057	mg/L		11/14/25 14:00	11/17/25 13:13	1
Arsenic	ND		0.0050	0.00075	mg/L		11/14/25 14:00	11/17/25 13:13	1
Barium	ND		0.0050	0.00077	mg/L		11/14/25 14:00	11/17/25 13:13	1
Beryllium	ND		0.0010	0.00027	mg/L		11/14/25 14:00	11/17/25 13:13	1
Cadmium	ND		0.0010	0.000077	mg/L		11/14/25 14:00	11/17/25 13:13	1
Calcium	ND		1.0	0.25	mg/L		11/14/25 14:00	11/17/25 13:13	1
Chromium	ND		0.0050	0.0012	mg/L		11/14/25 14:00	11/17/25 13:13	1
Cobalt	ND		0.0010	0.000086	mg/L		11/14/25 14:00	11/17/25 13:13	1
Lead	ND		0.0010	0.00045	mg/L		11/14/25 14:00	11/17/25 13:13	1
Lithium	ND		0.0080	0.0034	mg/L		11/14/25 14:00	11/17/25 13:13	1
Molybdenum	ND		0.0050	0.0011	mg/L		11/14/25 14:00	11/17/25 13:13	1
Selenium	ND		0.0050	0.00089	mg/L		11/14/25 14:00	11/17/25 13:13	1
Thallium	ND		0.0010	0.00051	mg/L		11/14/25 14:00	11/17/25 13:13	1

Lab Sample ID: LCS 240-680647/2-A
Matrix: Water
Analysis Batch: 680853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 680647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.0983		mg/L		98	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	0.984		mg/L		98	80 - 120
Beryllium	0.500	0.495		mg/L		99	80 - 120
Cadmium	0.500	0.478		mg/L		96	80 - 120
Calcium	25.0	25.1		mg/L		100	80 - 120
Chromium	0.500	0.512		mg/L		102	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.500	0.499		mg/L		100	80 - 120
Lithium	0.500	0.558		mg/L		112	80 - 120
Molybdenum	0.500	0.484		mg/L		97	80 - 120
Selenium	1.00	1.00		mg/L		100	80 - 120
Thallium	1.00	0.996		mg/L		100	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-729836/1-A
Matrix: Water
Analysis Batch: 730291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 729836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/14/25 12:15	11/14/25 20:24	1

Lab Sample ID: LCS 410-729836/2-A
Matrix: Water
Analysis Batch: 730291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 729836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00103		mg/L		103	80 - 120

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QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-733419/1-A
 Matrix: Water
 Analysis Batch: 733732

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 733419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 10:32	1

Lab Sample ID: LCS 410-733419/2-A
 Matrix: Water
 Analysis Batch: 733732

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 733419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.00110		mg/L		110	80 - 120

Lab Sample ID: 180-198316-7 MS
 Matrix: Water
 Analysis Batch: 733732

Client Sample ID: CCR-AP-5R-110525
 Prep Type: Total/NA
 Prep Batch: 733419

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00100	0.000820		mg/L		82	80 - 120

Lab Sample ID: 180-198316-7 MSD
 Matrix: Water
 Analysis Batch: 733732

Client Sample ID: CCR-AP-5R-110525
 Prep Type: Total/NA
 Prep Batch: 733419

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00100	0.000929		mg/L		93	80 - 120	12	20

Lab Sample ID: MB 410-733426/1-A
 Matrix: Water
 Analysis Batch: 733732

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 733426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000087	mg/L		11/21/25 06:50	11/21/25 11:26	1

Lab Sample ID: LCS 410-733426/2-A
 Matrix: Water
 Analysis Batch: 733732

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 733426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00100	0.000983		mg/L		98	80 - 120

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-506259/1
 Matrix: Water
 Analysis Batch: 506259

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: EPA 9040C - pH (Continued)

Lab Sample ID: LCS 180-506259/24
Matrix: Water
Analysis Batch: 506259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-506331/1
Matrix: Water
Analysis Batch: 506331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: 180-198316-2 DU
Matrix: Water
Analysis Batch: 506331

Client Sample ID: CCR-AP-11-110525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9	HF	6.9		SU		0.4	2

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-506251/1
Matrix: Water
Analysis Batch: 506251

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			11/12/25 12:18	1

Lab Sample ID: LCS 180-506251/2
Matrix: Water
Analysis Batch: 506251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	285	266		mg/L		93	85 - 115

Lab Sample ID: MB 180-506257/1
Matrix: Water
Analysis Batch: 506257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	10	mg/L			11/12/25 13:20	1

Lab Sample ID: LCS 180-506257/2
Matrix: Water
Analysis Batch: 506257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	285	326		mg/L		114	85 - 115

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QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-198316-13 DU
 Matrix: Water
 Analysis Batch: 506257

Client Sample ID: CCR-AP-2R-110625
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	4900		4960		mg/L		0.6	10

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-745569/1-A
 Matrix: Water
 Analysis Batch: 748729

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 745569

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05971	U	0.140	0.141	1.00	0.259	pCi/L	11/17/25 08:07	12/10/25 09:52	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		30 - 110					11/17/25 08:07	12/10/25 09:52	1

Lab Sample ID: LCS 160-745569/2-A
 Matrix: Water
 Analysis Batch: 748729

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 745569

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.57	8.594		1.12	1.00	0.269	pCi/L	90	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	80.5		30 - 110						

Lab Sample ID: 180-198316-7 DU
 Matrix: Water
 Analysis Batch: 748729

Client Sample ID: CCR-AP-5R-110525
 Prep Type: Total/NA
 Prep Batch: 745569

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-226	0.821		0.4385		0.193	1.00	0.208	pCi/L	0.86	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	88.9		30 - 110							

Lab Sample ID: MB 160-745572/1-A
 Matrix: Water
 Analysis Batch: 748718

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 745572

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.06076	U	0.0865	0.0866	1.00	0.219	pCi/L	11/17/25 08:15	12/10/25 23:09	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					11/17/25 08:15	12/10/25 23:09	1

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QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-745572/2-A
Matrix: Water
Analysis Batch: 748718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745572

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-226	9.57	9.637		1.17	1.00	0.200	pCi/L	101	75 - 125	
Carrier	%Yield	LCS Qualifier	LCS Limits							
Ba Carrier	80.2		30 - 110							

Lab Sample ID: 180-198316-12 DU
Matrix: Water
Analysis Batch: 748718

Client Sample ID: CCR-AP-3I-110625
Prep Type: Total/NA
Prep Batch: 745572

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.163	U	0.2622		0.157	1.00	0.190	pCi/L	0.32	1
Carrier	%Yield	DU Qualifier	DU Limits							
Ba Carrier	82.5		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-745571/1-A
Matrix: Water
Analysis Batch: 748588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745571

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2114	U	0.358	0.358	1.00	0.612	pCi/L	11/17/25 08:09	12/09/25 12:15	1
Carrier	%Yield	MB Qualifier	Count Limits							
Ba Carrier	85.2		30 - 110							
Y Carrier	81.5		30 - 110							
								Prepared	Analyzed	Dil Fac
								11/17/25 08:09	12/09/25 12:15	1
								11/17/25 08:09	12/09/25 12:15	1

Lab Sample ID: LCS 160-745571/2-A
Matrix: Water
Analysis Batch: 748588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745571

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.87	9.283		1.33	1.00	0.630	pCi/L	118	75 - 125
Carrier	%Yield	LCS Qualifier	LCS Limits						
Ba Carrier	80.5		30 - 110						
Y Carrier	84.9		30 - 110						

QC Sample Results

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 180-198316-7 DU
Matrix: Water
Analysis Batch: 748579

Client Sample ID: CCR-AP-5R-110525
Prep Type: Total/NA
Prep Batch: 745571

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.620		0.9864		0.447	1.00	0.590	pCi/L	0.44	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.9		30 - 110							
Y Carrier	80.7		30 - 110							

Lab Sample ID: MB 160-745576/1-A
Matrix: Water
Analysis Batch: 748579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745576

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.9203		0.426	0.434	1.00	0.571	pCi/L	11/17/25 08:18	12/09/25 12:11	1
MB MB										
Carrier	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	85.8		30 - 110				11/17/25 08:18	12/09/25 12:11	1	
Y Carrier	82.2		30 - 110				11/17/25 08:18	12/09/25 12:11	1	

Lab Sample ID: LCS 160-745576/2-A
Matrix: Water
Analysis Batch: 748579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745576

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits	
		Result	Qual	Uncert. (2σ+/-)						
Radium-228	7.87	8.287		1.24	1.00	0.616	pCi/L	105	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	80.2		30 - 110							
Y Carrier	82.6		30 - 110							

Lab Sample ID: 180-198316-12 DU
Matrix: Water
Analysis Batch: 748579

Client Sample ID: CCR-AP-3I-110625
Prep Type: Total/NA
Prep Batch: 745576

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.730		0.6029		0.395	1.00	0.574	pCi/L	0.16	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	82.5		30 - 110							
Y Carrier	80.7		30 - 110							

QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

HPLC/IC

Analysis Batch: 506323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	EPA 9056A	
MB 180-506323/54	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-506323/55	Lab Control Sample	Total/NA	Water	EPA 9056A	

Analysis Batch: 506388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	EPA 9056A	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	EPA 9056A	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	EPA 9056A	
180-198316-6	CCR-AP-8-110525	Total/NA	Water	EPA 9056A	
180-198316-6	CCR-AP-8-110525	Total/NA	Water	EPA 9056A	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	EPA 9056A	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	EPA 9056A	
180-198316-8	FD-PZ-2-110525	Total/NA	Water	EPA 9056A	
180-198316-9	MH-1-110625	Total/NA	Water	EPA 9056A	
180-198316-9	MH-1-110625	Total/NA	Water	EPA 9056A	
180-198316-10	CCR-BK-2-110625	Total/NA	Water	EPA 9056A	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	EPA 9056A	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	EPA 9056A	
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	EPA 9056A	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	EPA 9056A	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	EPA 9056A	
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	EPA 9056A	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	EPA 9056A	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	EPA 9056A	
180-198316-16	MH-2-110625	Total/NA	Water	EPA 9056A	
180-198316-16	MH-2-110625	Total/NA	Water	EPA 9056A	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	EPA 9056A	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	EPA 9056A	
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	EPA 9056A	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	EPA 9056A	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	EPA 9056A	
MB 180-506388/6	Method Blank	Total/NA	Water	EPA 9056A	
MB 180-506388/71	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-506388/7	Lab Control Sample	Total/NA	Water	EPA 9056A	
LCS 180-506388/72	Lab Control Sample	Total/NA	Water	EPA 9056A	
180-198316-7 MS	CCR-AP-5R-110525	Total/NA	Water	EPA 9056A	
180-198316-7 MSD	CCR-AP-5R-110525	Total/NA	Water	EPA 9056A	

Analysis Batch: 506430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-20	DUP-3-110525	Total/NA	Water	EPA 9056A	
180-198316-20	DUP-3-110525	Total/NA	Water	EPA 9056A	
180-198316-21	FB-1-110725	Total/NA	Water	EPA 9056A	
180-198316-22	FB-2-110725	Total/NA	Water	EPA 9056A	
MB 180-506430/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-506430/7	Lab Control Sample	Total/NA	Water	EPA 9056A	

Analysis Batch: 506495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-2	CCR-AP-11-110525	Total/NA	Water	EPA 9056A	

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QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

HPLC/IC (Continued)

Analysis Batch: 506495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-2	CCR-AP-11-110525	Total/NA	Water	EPA 9056A	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	EPA 9056A	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	EPA 9056A	
MB 180-506495/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-506495/7	Lab Control Sample	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 680627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total Recoverable	Water	3005A	
180-198316-2	CCR-AP-11-110525	Total Recoverable	Water	3005A	
180-198316-3	CCR-AP-4R-110525	Total Recoverable	Water	3005A	
180-198316-4	CCR-AP-9-110525	Total Recoverable	Water	3005A	
180-198316-5	CCR-AP-6-110525	Total Recoverable	Water	3005A	
180-198316-6	CCR-AP-8-110525	Total Recoverable	Water	3005A	
180-198316-7	CCR-AP-5R-110525	Total Recoverable	Water	3005A	
180-198316-8	FD-PZ-2-110525	Total Recoverable	Water	3005A	
180-198316-9	MH-1-110625	Total Recoverable	Water	3005A	
180-198316-10	CCR-BK-2-110625	Total Recoverable	Water	3005A	
180-198316-11	CCR-AP-3R-110625	Total Recoverable	Water	3005A	
180-198316-12	CCR-AP-3I-110625	Total Recoverable	Water	3005A	
180-198316-13	CCR-AP-2R-110625	Total Recoverable	Water	3005A	
180-198316-14	CCR-AP-21R-110625	Total Recoverable	Water	3005A	
180-198316-15	FD-PZ-1-110625	Total Recoverable	Water	3005A	
180-198316-16	MH-2-110625	Total Recoverable	Water	3005A	
180-198316-17	CCR-AP-10-110725	Total Recoverable	Water	3005A	
180-198316-18	CCR-BK-1R-110725	Total Recoverable	Water	3005A	
180-198316-19	CCR-AP-7R-110725	Total Recoverable	Water	3005A	
180-198316-20	DUP-3-110525	Total Recoverable	Water	3005A	
MB 240-680627/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-680627/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198316-7 MS	CCR-AP-5R-110525	Total Recoverable	Water	3005A	
180-198316-7 MSD	CCR-AP-5R-110525	Total Recoverable	Water	3005A	

Prep Batch: 680647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-21	FB-1-110725	Total Recoverable	Water	3005A	
180-198316-22	FB-2-110725	Total Recoverable	Water	3005A	
MB 240-680647/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-680647/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 680853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-2	CCR-AP-11-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-3	CCR-AP-4R-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-4	CCR-AP-9-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-5	CCR-AP-6-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-6	CCR-AP-8-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-7	CCR-AP-5R-110525	Total Recoverable	Water	EPA 6020B	680627

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QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Metals (Continued)

Analysis Batch: 680853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-8	FD-PZ-2-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-9	MH-1-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-10	CCR-BK-2-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-11	CCR-AP-3R-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-12	CCR-AP-3I-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-13	CCR-AP-2R-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-14	CCR-AP-21R-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-15	FD-PZ-1-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-16	MH-2-110625	Total Recoverable	Water	EPA 6020B	680627
180-198316-17	CCR-AP-10-110725	Total Recoverable	Water	EPA 6020B	680627
180-198316-18	CCR-BK-1R-110725	Total Recoverable	Water	EPA 6020B	680627
180-198316-19	CCR-AP-7R-110725	Total Recoverable	Water	EPA 6020B	680627
180-198316-20	DUP-3-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-21	FB-1-110725	Total Recoverable	Water	EPA 6020B	680647
180-198316-22	FB-2-110725	Total Recoverable	Water	EPA 6020B	680647
MB 240-680627/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	680627
MB 240-680647/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	680647
LCS 240-680627/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	680627
LCS 240-680647/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	680647
180-198316-7 MS	CCR-AP-5R-110525	Total Recoverable	Water	EPA 6020B	680627
180-198316-7 MSD	CCR-AP-5R-110525	Total Recoverable	Water	EPA 6020B	680627

Prep Batch: 729836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-22	FB-2-110725	Total/NA	Water	7470A	
MB 410-729836/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-729836/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 730291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-22	FB-2-110725	Total/NA	Water	EPA 7470A	729836
MB 410-729836/1-A	Method Blank	Total/NA	Water	EPA 7470A	729836
LCS 410-729836/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	729836

Prep Batch: 730907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total Recoverable	Water	3005A	
180-198316-2	CCR-AP-11-110525	Total Recoverable	Water	3005A	
180-198316-3	CCR-AP-4R-110525	Total Recoverable	Water	3005A	
180-198316-4	CCR-AP-9-110525	Total Recoverable	Water	3005A	
MB 410-730907/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-730907/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 730908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-5	CCR-AP-6-110525	Total Recoverable	Water	3005A	
180-198316-6	CCR-AP-8-110525	Total Recoverable	Water	3005A	
180-198316-8	FD-PZ-2-110525	Total Recoverable	Water	3005A	
180-198316-9	MH-1-110625	Total Recoverable	Water	3005A	
180-198316-10	CCR-BK-2-110625	Total Recoverable	Water	3005A	
180-198316-11	CCR-AP-3R-110625	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Metals (Continued)

Prep Batch: 730908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-12	CCR-AP-3I-110625	Total Recoverable	Water	3005A	
180-198316-13	CCR-AP-2R-110625	Total Recoverable	Water	3005A	
180-198316-14	CCR-AP-21R-110625	Total Recoverable	Water	3005A	
180-198316-15	FD-PZ-1-110625	Total Recoverable	Water	3005A	
180-198316-16	MH-2-110625	Total Recoverable	Water	3005A	
180-198316-17	CCR-AP-10-110725	Total Recoverable	Water	3005A	
180-198316-18	CCR-BK-1R-110725	Total Recoverable	Water	3005A	
180-198316-19	CCR-AP-7R-110725	Total Recoverable	Water	3005A	
180-198316-20	DUP-3-110525	Total Recoverable	Water	3005A	
180-198316-21	FB-1-110725	Total Recoverable	Water	3005A	
180-198316-22	FB-2-110725	Total Recoverable	Water	3005A	
MB 410-730908/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-730908/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198316-19 MS	CCR-AP-7R-110725	Total Recoverable	Water	3005A	
180-198316-19 MSD	CCR-AP-7R-110725	Total Recoverable	Water	3005A	
180-198316-19 DU	CCR-AP-7R-110725	Total Recoverable	Water	3005A	

Analysis Batch: 731573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total Recoverable	Water	EPA 6010D	730907
180-198316-2	CCR-AP-11-110525	Total Recoverable	Water	EPA 6010D	730907
180-198316-3	CCR-AP-4R-110525	Total Recoverable	Water	EPA 6010D	730907
MB 410-730907/1-A	Method Blank	Total Recoverable	Water	EPA 6010D	730907
LCS 410-730907/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6010D	730907

Analysis Batch: 731736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-4	CCR-AP-9-110525	Total Recoverable	Water	EPA 6010D	730907

Analysis Batch: 731955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-5	CCR-AP-6-110525	Total Recoverable	Water	EPA 6010D	730908
180-198316-9	MH-1-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-11	CCR-AP-3R-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-13	CCR-AP-2R-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-15	FD-PZ-1-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-16	MH-2-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-18	CCR-BK-1R-110725	Total Recoverable	Water	EPA 6010D	730908
180-198316-22	FB-2-110725	Total Recoverable	Water	EPA 6010D	730908

Analysis Batch: 731958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-6	CCR-AP-8-110525	Total Recoverable	Water	EPA 6010D	730908
180-198316-8	FD-PZ-2-110525	Total Recoverable	Water	EPA 6010D	730908
180-198316-10	CCR-BK-2-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-12	CCR-AP-3I-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-14	CCR-AP-21R-110625	Total Recoverable	Water	EPA 6010D	730908
180-198316-19	CCR-AP-7R-110725	Total Recoverable	Water	EPA 6010D	730908
180-198316-20	DUP-3-110525	Total Recoverable	Water	EPA 6010D	730908
180-198316-21	FB-1-110725	Total Recoverable	Water	EPA 6010D	730908
MB 410-730908/1-A	Method Blank	Total Recoverable	Water	EPA 6010D	730908

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QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Metals (Continued)

Analysis Batch: 731958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-730908/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6010D	730908
180-198316-19 MS	CCR-AP-7R-110725	Total Recoverable	Water	EPA 6010D	730908
180-198316-19 MSD	CCR-AP-7R-110725	Total Recoverable	Water	EPA 6010D	730908
180-198316-19 DU	CCR-AP-7R-110725	Total Recoverable	Water	EPA 6010D	730908

Prep Batch: 733419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	7470A	
180-198316-2	CCR-AP-11-110525	Total/NA	Water	7470A	
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	7470A	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	7470A	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	7470A	
180-198316-6	CCR-AP-8-110525	Total/NA	Water	7470A	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	7470A	
180-198316-8	FD-PZ-2-110525	Total/NA	Water	7470A	
180-198316-9	MH-1-110625	Total/NA	Water	7470A	
180-198316-10	CCR-BK-2-110625	Total/NA	Water	7470A	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	7470A	
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	7470A	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	7470A	
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	7470A	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	7470A	
180-198316-16	MH-2-110625	Total/NA	Water	7470A	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	7470A	
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	7470A	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	7470A	
180-198316-20	DUP-3-110525	Total/NA	Water	7470A	
MB 410-733419/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-733419/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-198316-7 MS	CCR-AP-5R-110525	Total/NA	Water	7470A	
180-198316-7 MSD	CCR-AP-5R-110525	Total/NA	Water	7470A	

Prep Batch: 733426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-21	FB-1-110725	Total/NA	Water	7470A	
MB 410-733426/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-733426/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 733732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	EPA 7470A	733419
180-198316-2	CCR-AP-11-110525	Total/NA	Water	EPA 7470A	733419
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	EPA 7470A	733419
180-198316-4	CCR-AP-9-110525	Total/NA	Water	EPA 7470A	733419
180-198316-5	CCR-AP-6-110525	Total/NA	Water	EPA 7470A	733419
180-198316-6	CCR-AP-8-110525	Total/NA	Water	EPA 7470A	733419
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	EPA 7470A	733419
180-198316-8	FD-PZ-2-110525	Total/NA	Water	EPA 7470A	733419
180-198316-9	MH-1-110625	Total/NA	Water	EPA 7470A	733419
180-198316-10	CCR-BK-2-110625	Total/NA	Water	EPA 7470A	733419
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	EPA 7470A	733419

Eurofins Pittsburgh

QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

Metals (Continued)

Analysis Batch: 733732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	EPA 7470A	733419
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	EPA 7470A	733419
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	EPA 7470A	733419
180-198316-15	FD-PZ-1-110625	Total/NA	Water	EPA 7470A	733419
180-198316-16	MH-2-110625	Total/NA	Water	EPA 7470A	733419
180-198316-17	CCR-AP-10-110725	Total/NA	Water	EPA 7470A	733419
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	EPA 7470A	733419
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	EPA 7470A	733419
180-198316-20	DUP-3-110525	Total/NA	Water	EPA 7470A	733419
180-198316-21	FB-1-110725	Total/NA	Water	EPA 7470A	733426
MB 410-733419/1-A	Method Blank	Total/NA	Water	EPA 7470A	733419
MB 410-733426/1-A	Method Blank	Total/NA	Water	EPA 7470A	733426
LCS 410-733419/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	733419
LCS 410-733426/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	733426
180-198316-7 MS	CCR-AP-5R-110525	Total/NA	Water	EPA 7470A	733419
180-198316-7 MSD	CCR-AP-5R-110525	Total/NA	Water	EPA 7470A	733419

Prep Batch: 734252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-7	CCR-AP-5R-110525	Total Recoverable	Water	3005A	
MB 410-734252/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-734252/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-198316-7 MS	CCR-AP-5R-110525	Total Recoverable	Water	3005A	
180-198316-7 MSD	CCR-AP-5R-110525	Total Recoverable	Water	3005A	

Analysis Batch: 735026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-7	CCR-AP-5R-110525	Total Recoverable	Water	EPA 6010D	734252
MB 410-734252/1-A	Method Blank	Total Recoverable	Water	EPA 6010D	734252
LCS 410-734252/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6010D	734252
180-198316-7 MS	CCR-AP-5R-110525	Total Recoverable	Water	EPA 6010D	734252
180-198316-7 MSD	CCR-AP-5R-110525	Total Recoverable	Water	EPA 6010D	734252

Analysis Batch: 736061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-17	CCR-AP-10-110725	Total Recoverable	Water	EPA 6010D	730908

General Chemistry

Analysis Batch: 506251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	SM 2540C	
180-198316-2	CCR-AP-11-110525	Total/NA	Water	SM 2540C	
MB 180-506251/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-506251/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 506257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	SM 2540C	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	SM 2540C	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

General Chemistry (Continued)

Analysis Batch: 506257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-6	CCR-AP-8-110525	Total/NA	Water	SM 2540C	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	SM 2540C	
180-198316-8	FD-PZ-2-110525	Total/NA	Water	SM 2540C	
180-198316-9	MH-1-110625	Total/NA	Water	SM 2540C	
180-198316-10	CCR-BK-2-110625	Total/NA	Water	SM 2540C	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	SM 2540C	
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	SM 2540C	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	SM 2540C	
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	SM 2540C	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	SM 2540C	
180-198316-16	MH-2-110625	Total/NA	Water	SM 2540C	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	SM 2540C	
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	SM 2540C	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	SM 2540C	
180-198316-20	DUP-3-110525	Total/NA	Water	SM 2540C	
180-198316-21	FB-1-110725	Total/NA	Water	SM 2540C	
180-198316-22	FB-2-110725	Total/NA	Water	SM 2540C	
MB 180-506257/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-506257/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-198316-13 DU	CCR-AP-2R-110625	Total/NA	Water	SM 2540C	

Analysis Batch: 506259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	EPA 9040C	
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	EPA 9040C	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	EPA 9040C	
180-198316-6	CCR-AP-8-110525	Total/NA	Water	EPA 9040C	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	EPA 9040C	
180-198316-8	FD-PZ-2-110525	Total/NA	Water	EPA 9040C	
180-198316-9	MH-1-110625	Total/NA	Water	EPA 9040C	
180-198316-10	CCR-BK-2-110625	Total/NA	Water	EPA 9040C	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	EPA 9040C	
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	EPA 9040C	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	EPA 9040C	
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	EPA 9040C	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	EPA 9040C	
180-198316-16	MH-2-110625	Total/NA	Water	EPA 9040C	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	EPA 9040C	
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	EPA 9040C	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	EPA 9040C	
180-198316-20	DUP-3-110525	Total/NA	Water	EPA 9040C	
180-198316-21	FB-1-110725	Total/NA	Water	EPA 9040C	
180-198316-22	FB-2-110725	Total/NA	Water	EPA 9040C	
LCS 180-506259/1	Lab Control Sample	Total/NA	Water	EPA 9040C	
LCS 180-506259/24	Lab Control Sample	Total/NA	Water	EPA 9040C	

Analysis Batch: 506331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-2	CCR-AP-11-110525	Total/NA	Water	EPA 9040C	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	EPA 9040C	
LCS 180-506331/1	Lab Control Sample	Total/NA	Water	EPA 9040C	

Eurofins Pittsburgh

QC Association Summary

Client: Haley & Aldrich Inc
 Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
 SDG: Semi-Annual

General Chemistry (Continued)

Analysis Batch: 506331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-2 DU	CCR-AP-11-110525	Total/NA	Water	EPA 9040C	

Rad

Prep Batch: 745569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	PrecSep-21	
180-198316-2	CCR-AP-11-110525	Total/NA	Water	PrecSep-21	
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	PrecSep-21	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	PrecSep-21	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	PrecSep-21	
180-198316-6	CCR-AP-8-110525	Total/NA	Water	PrecSep-21	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	PrecSep-21	
180-198316-8	FD-PZ-2-110525	Total/NA	Water	PrecSep-21	
MB 160-745569/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-745569/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-198316-7 DU	CCR-AP-5R-110525	Total/NA	Water	PrecSep-21	

Prep Batch: 745571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-1	CCR-AP-1R-110525	Total/NA	Water	PrecSep_0	
180-198316-2	CCR-AP-11-110525	Total/NA	Water	PrecSep_0	
180-198316-3	CCR-AP-4R-110525	Total/NA	Water	PrecSep_0	
180-198316-4	CCR-AP-9-110525	Total/NA	Water	PrecSep_0	
180-198316-5	CCR-AP-6-110525	Total/NA	Water	PrecSep_0	
180-198316-6	CCR-AP-8-110525	Total/NA	Water	PrecSep_0	
180-198316-7	CCR-AP-5R-110525	Total/NA	Water	PrecSep_0	
180-198316-8	FD-PZ-2-110525	Total/NA	Water	PrecSep_0	
MB 160-745571/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-745571/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-198316-7 DU	CCR-AP-5R-110525	Total/NA	Water	PrecSep_0	

Prep Batch: 745572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-9	MH-1-110625	Total/NA	Water	PrecSep-21	
180-198316-10	CCR-BK-2-110625	Total/NA	Water	PrecSep-21	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	PrecSep-21	
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	PrecSep-21	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	PrecSep-21	
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	PrecSep-21	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	PrecSep-21	
180-198316-16	MH-2-110625	Total/NA	Water	PrecSep-21	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	PrecSep-21	
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	PrecSep-21	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	PrecSep-21	
180-198316-20	DUP-3-110525	Total/NA	Water	PrecSep-21	
180-198316-21	FB-1-110725	Total/NA	Water	PrecSep-21	
180-198316-22	FB-2-110725	Total/NA	Water	PrecSep-21	
MB 160-745572/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-745572/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-198316-12 DU	CCR-AP-3I-110625	Total/NA	Water	PrecSep-21	

QC Association Summary

Client: Haley & Aldrich Inc
Project/Site: AB Brown Generating Station

Job ID: 180-198316-1
SDG: Semi-Annual

Rad

Prep Batch: 745576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-198316-9	MH-1-110625	Total/NA	Water	PrecSep_0	
180-198316-10	CCR-BK-2-110625	Total/NA	Water	PrecSep_0	
180-198316-11	CCR-AP-3R-110625	Total/NA	Water	PrecSep_0	
180-198316-12	CCR-AP-3I-110625	Total/NA	Water	PrecSep_0	
180-198316-13	CCR-AP-2R-110625	Total/NA	Water	PrecSep_0	
180-198316-14	CCR-AP-21R-110625	Total/NA	Water	PrecSep_0	
180-198316-15	FD-PZ-1-110625	Total/NA	Water	PrecSep_0	
180-198316-16	MH-2-110625	Total/NA	Water	PrecSep_0	
180-198316-17	CCR-AP-10-110725	Total/NA	Water	PrecSep_0	
180-198316-18	CCR-BK-1R-110725	Total/NA	Water	PrecSep_0	
180-198316-19	CCR-AP-7R-110725	Total/NA	Water	PrecSep_0	
180-198316-20	DUP-3-110525	Total/NA	Water	PrecSep_0	
180-198316-21	FB-1-110725	Total/NA	Water	PrecSep_0	
180-198316-22	FB-2-110725	Total/NA	Water	PrecSep_0	
MB 160-745576/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-745576/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-198316-12 DU	CCR-AP-3I-110625	Total/NA	Water	PrecSep_0	

Eurofins Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

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Client Information		Sampler		Carrier Tracking No(s)		COC No	
Client Contact: Britton Hundley		Owen Aston, Fans is Pled		180-118796-15023.1		Page Page 1 of 2	
Company: Haley & Aldrich, Inc.		616-602-2649		State of Origin IN		Job # 0129420-037	
Address: 400 Augusta Street Suite 100		Due Date Requested:		Analysis Requested		Preservation Codes: N - None D - HNO3	
City: Greenville		TAT Requested (days): STD TAT		Perform MS/MSD (Yes or No)		Other:	
State, Zip: SC, 29601		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No)		Total Number of Containers	
Phone: PO # 0129420-037-001-01		WO #		7470A - Hg by 7470A		180-198316 Chain of Custody	
Email: BHundley@haleyaldrich.com		Project # 18016014		9040C, 9056A_ORGFM_28D		Special Instructions/Note:	
Project Name AB Brown Generating Station(semi-annual)		SSOW#		9315 Ra226 - Ra226 by 9315			
Site		Sample Date		9320 Ra228 - Ra228 by 9320			
Sample Identification		Sample Time		Ra226Ra228_GFP-C - Total Ra226/Ra228			
CCR-AP-1R-110525		11/05/25 08:14		6010D - Boron by 6010D			
CCR-AP-11-110525		12:50					
CCR-AP-4R-110525		11:30					
CCR-AP-9-110525		15:15					
CCR-AP-6-110525		13:30					
CCR-AP-8-110525		11:25					
CCR-AP-5R-110525		08:30					
FO-PZ-2-110525		14:25					
MH-2-110625		11/06/25 15:00				MSMSD	
CCR-BK-2-110625		16:55					
CCR-AP-3R-110625		16:30					
Possible Hazard Identification		Sample Type (C=Comp, G=grab)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Preservation Code:		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Matrix (W=water, S=solid, O=on-site, B=breathable, P=peak, D=drinking water)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Method of Shipment:			
Relinquished by: Owen Aldrich		11/10/25 12:30		Date/Time:		Date/Time: 11/11/25 09:45	
Relinquished by:		Date/Time:		Company:		Company: 8177-16	



Chain of Custody Record

Client Information		Lab PM Johnson, Andy		Carrier Tracking No(s)		COC No 180-118796-15023.1	
Client Contact Britton Hundley		E-Mail Andy.Johnson@et.eurofins.com		State of Origin IN		Page Page 2 of 2	
Company Haley & Aldrich, Inc		PWSID		Analysis Requested		Job # 0129420-037	
Address 400 Augusta Street Suite 100		Due Date Requested:		6010D - Boron by 6010D		Preservation Codes: N - None D - HNO3	
City Greenville		TAT Requested (days): STD TAT		6020B - Metals by 6020B		Other:	
State, Zip SC, 29601		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		R226Ra228 - GFPC - Total Ra226/Ra228		Special Instructions/Note:	
Phone		PO # 0129420-037-001-01		9320_Ra228 - Ra228 by 9320		Total Number of containers	
Email BHundley@haleyaldrich.com		WO #		9315_Ra226 - Ra226 by 9315			
Project Name AB Brown Generating Station (semi-annual)		Project # 18016014		2540C - TDS by 2540C			
Site		SSOW#		7470A - Hg by 7470A			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air, DW=drinking water)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	9040C - 9056A_ORGFM_28D
CCR-AP-31-110625	11/06/25	14:30	G	Water	N	N	X
CCR-AP-2R-110625		11:20		Water	N	N	X
CCR-AP-2R-110625		08:25		Water	N	N	X
FD-P2-1-110625		11:40		Water	N	N	X
MH-2-110625		12:25		Water	N	N	X
CCR-AP-10-110725	11/07/25	12:30		Water	N	N	X
CCR-BK-2R-110725		04:00		Water	N	N	X
CCR-AP-7R-110725		08:50		Water	N	N	X
Dup-3-110525	11/05/25	12:00		Water	N	N	X
FB-1-110725	11/07/25	12:40		Water	N	N	X
FB-2-110725	11/07/25	14:05		Water	N	N	X

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by	Date/Time	Company	Date/Time
Relinquished by	Date/Time	Company	Date/Time
Relinquished by Bryan Glavin	11/10/25	12:30	Company H&A
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time	Company	Date/Time
	11/11/25	0945	Company OFFA16
Cooler Temperature(s) °C and Other Remarks			



Ref: RETURN Date: 29OCT25 0.00
Dep: Wgt: 35.00 LBS 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
D.V.: 0.00
Sys: PRIORITY OVERNIGHT Master 4642 5783 9524
TRK#: 4642 5783 9535

ORIGIN ID: AGCA (864) 549-7656 SHIP DATE: 29OCT25
LINDSEY GISH ACTWGT: 35.00 LB MAN
CENTER POINT ENERGY CAD: 0522321/CAFE3953
A.B. BROWN GENERATING STATION
8511 MELBORN ROAD
MOUNT VERNON, IN 47620
UNITED STATES US

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: RETURN

RMA: ||| III
Uncorrected temp 5.3 °C
Thermometer ID 25
CF +0.1 Initials *JKR*
PT-WI-SR-001 effective 11/8/18

FedEx Express



TUE - 11 NOV 10:30A
PRIORITY OVERNIGHT

FedEx TRK# 4642 5783 9535
0221

15238

XG AGCA



180-198316 Waybill



58-H2501069F2

COC in Here

Ref: RETURN Date: 29OCT25 0.00
Dep: Wgt: 35.00 LBS 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
D.V.: 0.00
Sys: PRIORITY OVERNIGHT Master 4642 5783 9524
TRK#: 4642 5783 9579

ORIGIN ID: AGCA (864) 549-7656 SHIP DATE: 29OCT25
LINDSEY GISH ACTWGT: 35.00 LB MAN
CENTER POINT ENERGY CAD: 0522321/CAFE3953
A.B. BROWN GENERATING STATION
8511 MELBORN ROAD
MOUNT VERNON, IN 47620
UNITED STATES US

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: RETURN

RMA: ||| III

Uncorrected temp 2.8 °C
Thermometer ID 25
CF +0.1 Initials *JKR*
PT-WI-SR-001 effective 11/8/18

FedEx Express



TUE - 11 NOV 10:30A
PRIORITY OVERNIGHT

FedEx TRK# 4642 5783 9579
0221

15238

XG AGCA

PA-US PIT

Uncorrected temp 2.8 °C
Thermometer ID 25
CF +0.1 Initials *JKR*
PT-WI-SR-001 effective 11/8/18



58-H2501069F2

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- 13

Svcs: PRIORITY OVERNIGHT Master 4642 5783 9524
TRCK: 4642 5783 9568

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Ref: RETURN Date: 29Oct25
C Dep: Wgt: 35.00 LBS
D DV: 0.00
F Svcs: PRIORITY OVERNIGHT Master 4642 5783 9524
TRCK: 4642 5783 9568

ORIGIN ID: A6CA (864) 549-7656
LINDSEY GISH ENERGY
CENTER POINT GENERATING STATION
A. B. BROWN ROAD
8511 MELBORN ROAD
MOUNT VERNON, IN 47620
UNITED STATES US

SHIP DATE: 29OCT25
ACTWT: 35.00 LB MAN
CAD: 0522321/CAFE3953

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7630
REF: RETURN

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7630
REF: RETURN

RMA: ||| ||| ||| |||

125925042901 0V
FedEx Express
E
UnCorrected temp 4.2 °C
Thermometer ID 25
CF T.O.J. Initials OR
PT-WI-SR-001 effective 11/8/18

125925042901 0V
FedEx Express
E
UnCorrected temp 4.2 °C
Thermometer ID 25
CF T.O.J. Initials OR
PT-WI-SR-001 effective 11/8/18

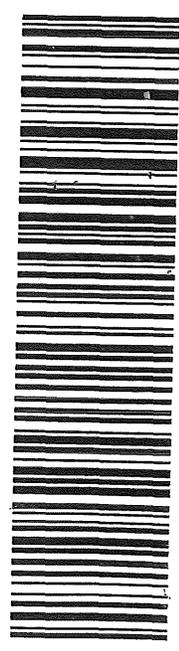
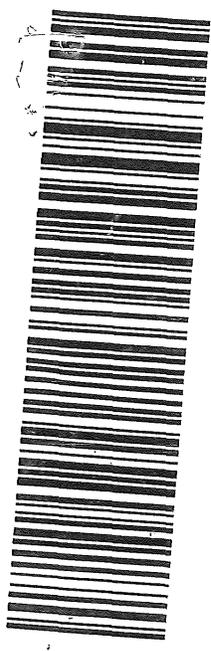
TRK# 4642 5783 9568
0221
FIVE - 11 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 4642 5783 9568
0221
TUE - 11 NOV 10:30A
PRIORITY OVERNIGHT

XG AGCA

FedEx
TRK# 4642 5783 9580
0221
TUE - 11 NOV 10:30A
PRIORITY OVERNIGHT

XG AGCA



58HL2501059F2

58HL2501059F2

Part # 156470-434 MTW EXP 09/25

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Dep: 0.00
MGT: 0.00
DV: 0.00
HANDLING: 0.00
TOTAL: 0.00

SHIP DATE: 28OCT25
ACTWGT: 35.00 LB MAN
CAD: 0522321/CRPE3953

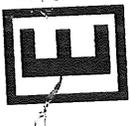
ORIGIN ID: AGCA (864) 549-7656
LINDSEY GISH
CENTER POINT ENERGY
A.B. BROOK GENERATING STATION
8511 WELBORN ROAD
MOUNT VERNON, IN 47620
UNITED STATES US

TO SAMPLE RECEIVING DEPARTMENT
EUROFINS ENVIRO. TESTING PITT N.E.
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 963-7630
REF: RETURN

FedEx Express



Uncorrected temp: 3.0 °C
Thermometer ID: 25

CF +0.1 Initials: JLR

PT-MIL-SR-001 effective 11/8/18

TUE - 11 NOV 10:30A

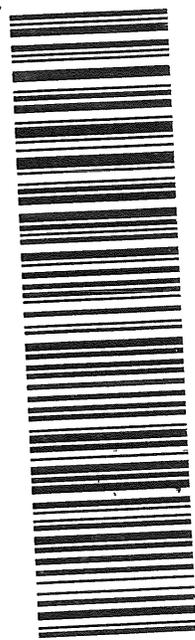
PRIORITY OVERNIGHT

TRK# 4642 5783 9557

XG AGCA

15238 PIT

PA-US



58HJ2501C69F2

Part # 159470-434 MTW EXP 09/25

Part # 156297-435 RRD EXP 10/26

ORIGIN ID: HLMA (216) 706-1362
TINA NALEPA
HALEY & ALDRICH INC.
6500 ROCKSIDE RD STE 200
INDEPENDENCE, OH 44131
UNITED STATES US

SHIP DATE: 10NOV25
ACTWGT: 46.25 LB
CAD: 6570999/R0SA2670
DIMS: 24x15x15 IN
BILL THIRD PARTY

TO EUROFINS

PROJECT #: 0129420 - 037 - 001 - 01
301 ALPHA DR RIDC PARK

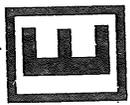
PITTSBURGH PA 15238

(000) 000-0000
REF: INV: PO:

DEPT:



FedEx Express



Uncorrected temp: 2.4 °C
Thermometer ID: 25

CF +0.1 Initials: JLR

PT-WI-SR-001 effective 11/8/18

TUE - 11 NOV 10:30A

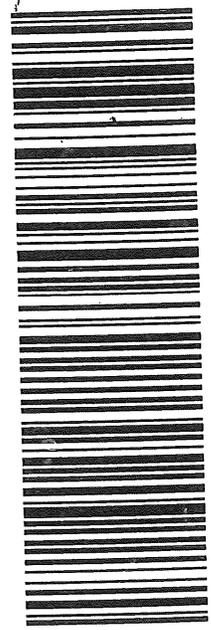
PRIORITY OVERNIGHT

TRK# 8859 1092 3860

XG AGCA

15238 PIT

PA-US



Part #

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Eurofins Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A	Lab P/N: Johnson, Andy	Carrier Tracking No(s): N/A	COC No: 180-548668.2	
Client Contact: N/A		Phone: N/A	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Indiana	Page: Page 2 of 3	
Shipping/Receiving		Company: Test/America Laboratories, Inc.	Accreditations Required (See note): N/A	Job #: 180-198316-1	Preservation Codes:	
Address: 13715 Rider Trail North,		Due Date Requested: 12/16/2025	Analysis Requested			
City: Earth City		TAT Requested (days): N/A	Perform M/MSD (Yes or No) <input checked="" type="checkbox"/>			
State, Zip: MO, 63045		PO #: N/A	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		I/O #: N/A	9315 Ra228/Presep_21Radum-228 (GFP) by 9315			
Email: N/A		Project #: 18016014	920 Ra228/Presep_0Radum-228 (GFP) by 9320			
SSOW#: N/A		Site: N/A	Ra228Ra228_GFPCombined Radum-228 and			
			Total Number of Containers			
			Other: N/A			
			Special Instructions/Note:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Solid, O=Other)	Preservation Code: (ET-TISSUE, A-AIR)
MH-1-110625 (180-198316-9)	11/6/25	15:00 Eastern	G	Water		X
CCR-BK-2-110625 (180-198316-10)	11/6/25	16:55 Eastern	G	Water		X
CCR-AP-3R-110625 (180-198316-11)	11/6/25	16:30 Eastern	G	Water		X
CCR-AP-3I-110625 (180-198316-12)	11/6/25	14:30 Eastern	G	Water		X
CCR-AP-2R-110625 (180-198316-13)	11/6/25	11:20 Eastern	G	Water		X
CCR-AP-21R-110625 (180-198316-14)	11/6/25	08:25 Eastern	G	Water		X
FD-PZ-1-110625 (180-198316-15)	11/6/25	11:40 Eastern	G	Water		X
MH-2-110625 (180-198316-16)	11/6/25	12:25 Eastern	G	Water		X
CCRR-AP-10-110725 (180-198316-17)	11/7/25	12:30 Eastern	G	Water		X

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: *James J. Hinkelmann* Date/Time: 11/12/25 17:00 Company: EPA/ANE
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Haley & Aldrich Inc

Job Number: 180-198316-1

SDG Number: Semi-Annual

Login Number: 198316

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Login Sample Receipt Checklist

Client: Haley & Aldrich Inc

Job Number: 180-198316-1

SDG Number: Semi-Annual

Login Number: 198316

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

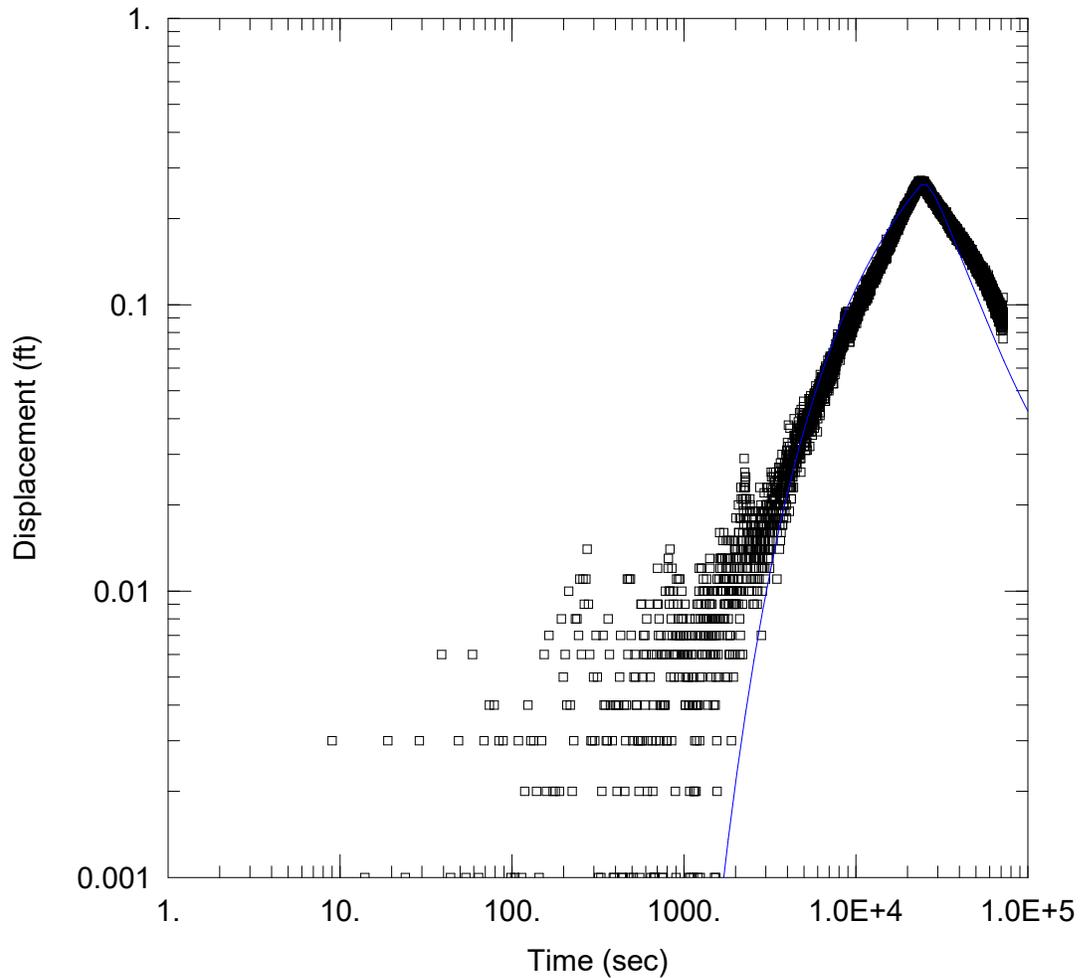
List Creation: 11/13/25 11:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



APPENDIX D
Hydraulic Characterization



WELL TEST ANALYSIS

Data Set: C:\...\EX-2A_INJ.aqt
 Date: 08/14/25

Time: 23:02:42

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: INJ-01
 Test Date: 8/8/25

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
INJ-01	2771443.82	966909.7635	□ EX-2A	2771391.7439	966870.701

SOLUTION

Aquifer Model: Unconfined

Solution Method: Tartakovsky-Neuman

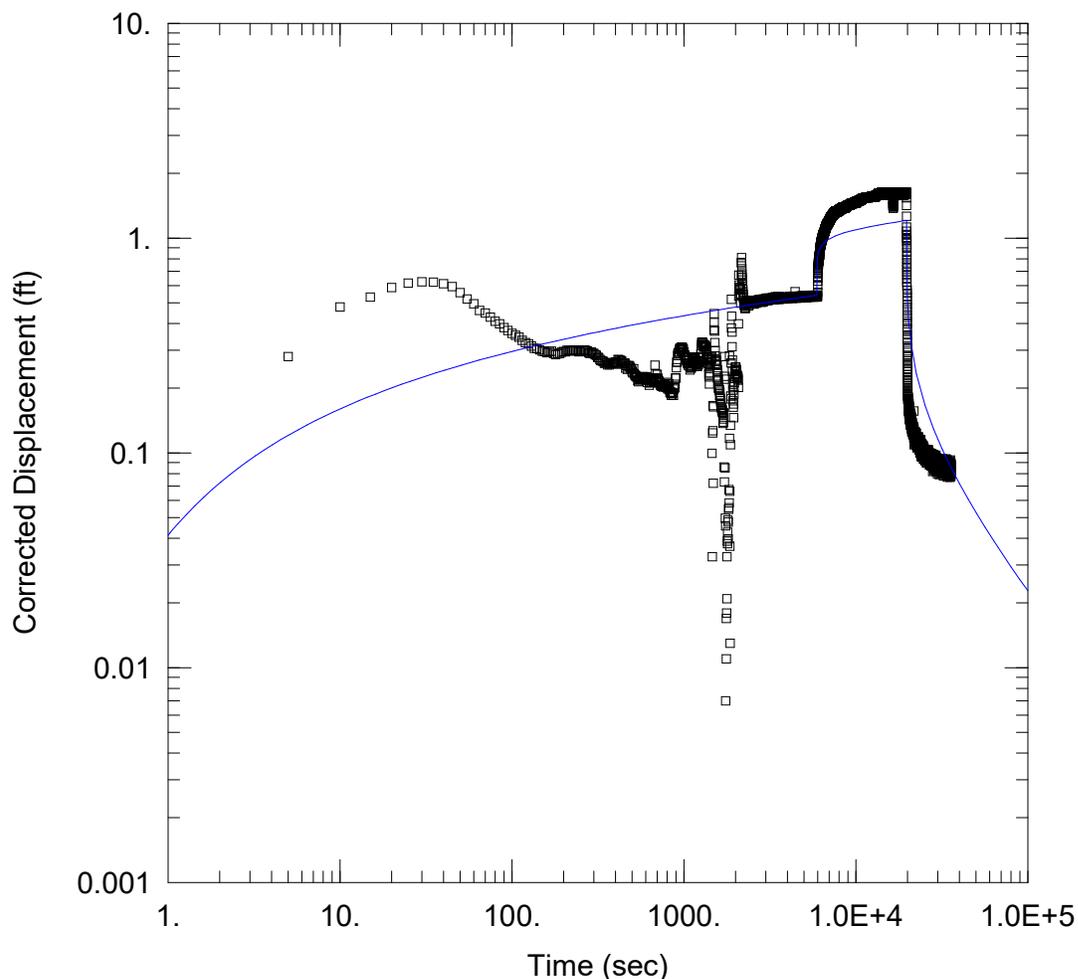
T = 253.5 ft²/day

S = 0.02007

Sy = 0.1

Kz/Kr = 0.001

kD = 5



WELL TEST ANALYSIS

Data Set: C:\...\EX-2A_PUMP_2A.aqt

Date: 08/14/25

Time: 23:00:54

PROJECT INFORMATION

Company: Haley & Aldrich

Client: SIGECO

Project: 0129420-038

Location: Posey, IN

Test Well: EX-2A

Test Date: 8/7/25

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
EX-2A	2771391.743966870.701	

Observation Wells

Well Name	X (ft)	Y (ft)
□ EX-2A	2771391.743966870.701	

SOLUTION

Aquifer Model: Unconfined

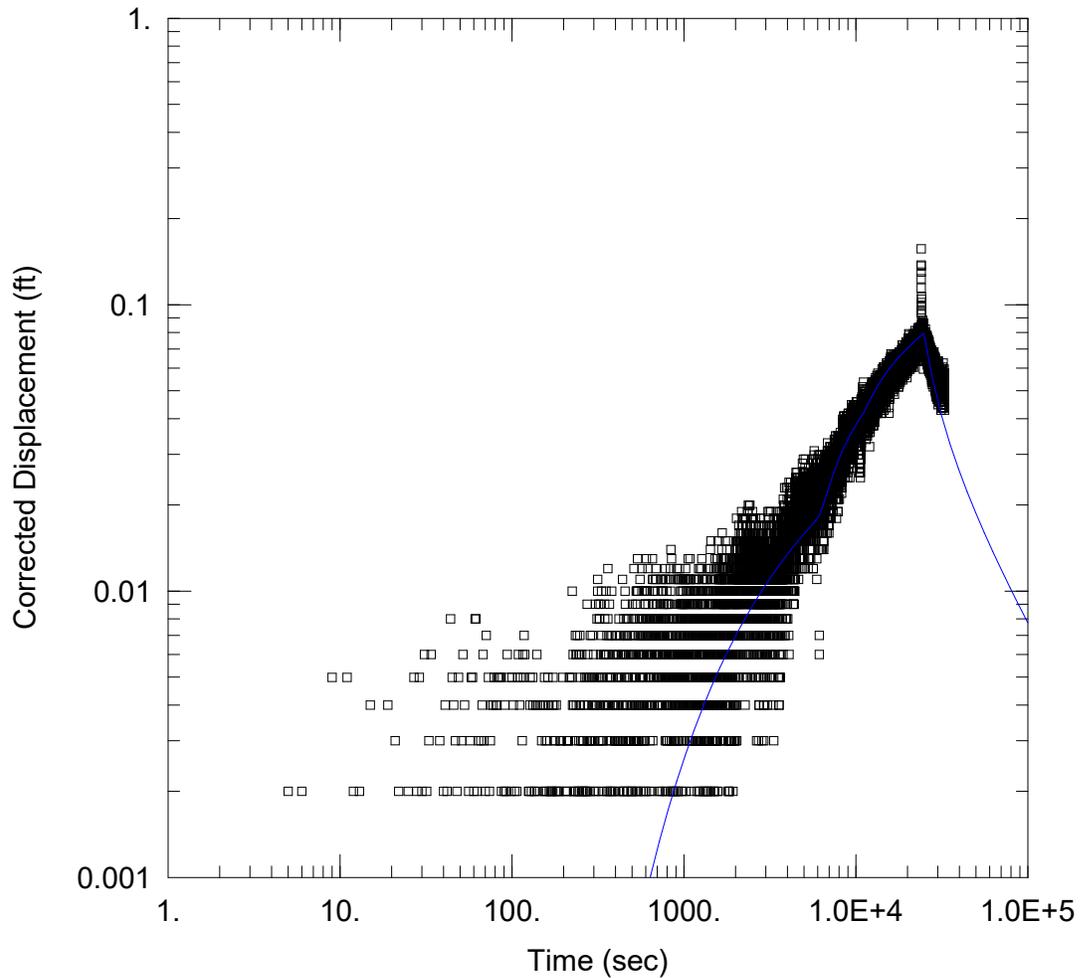
Solution Method: Theis

T = 127.2 ft²/day

S = 0.02173

Kz/Kr = 1.

b = 3.5 ft



WELL TEST ANALYSIS

Data Set: C:\...\EX-2A_PUMP_3A.aqt
 Date: 08/15/25

Time: 19:20:40

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: EX-3A
 Test Date: 8/6/25

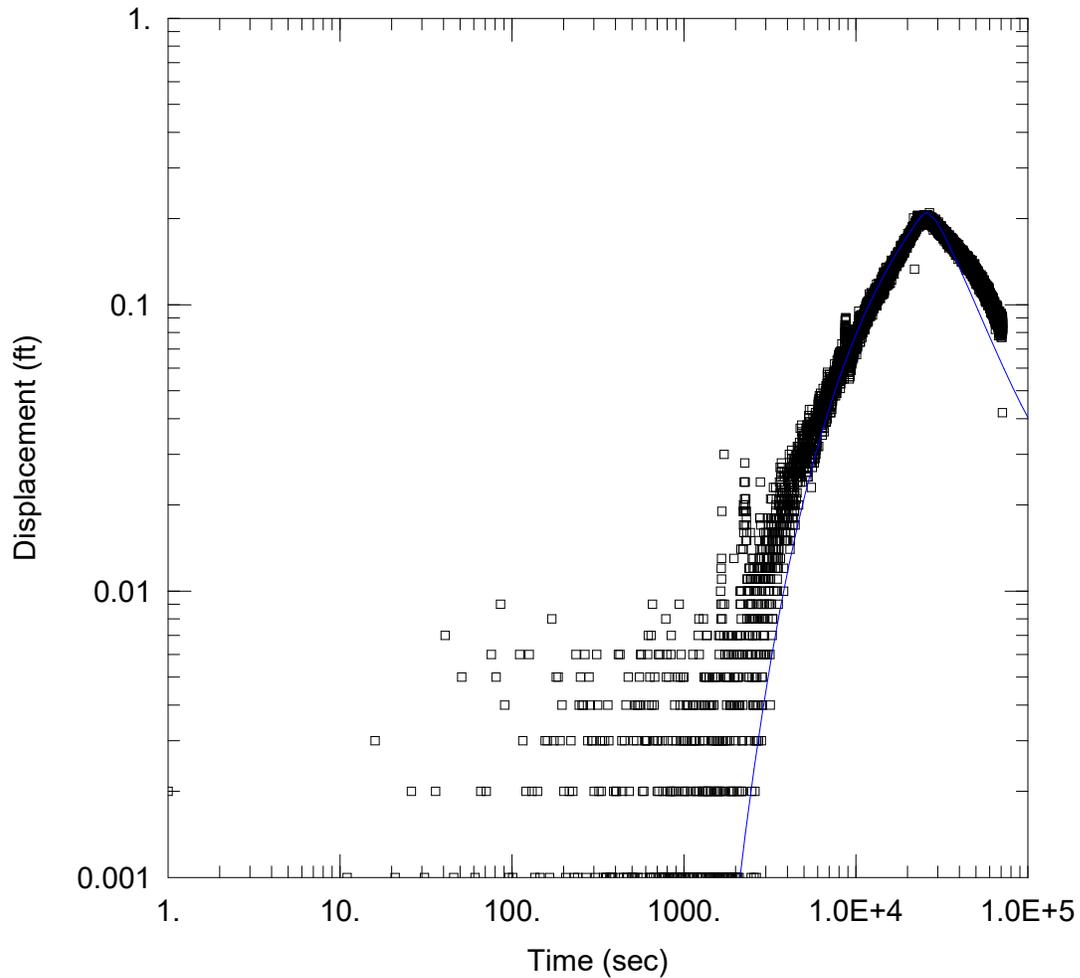
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-3A	2771424.729	966843.7913	□ EX-2A	2771391.743	966870.701

SOLUTION

Aquifer Model: Unconfined
 $T = 554.4 \text{ ft}^2/\text{day}$
 $Kz/Kr = 0.001035$

Solution Method: Theis
 $S = 0.01553$
 $b = 4. \text{ ft}$



WELL TEST ANALYSIS

Data Set: C:\...\EX-3A_INJ.aqt
 Date: 08/14/25

Time: 23:03:15

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: INJ-01
 Test Date: 8/8/25

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
INJ-01	2771443.82	966909.7635	□ EX-3A	2771424.72	966843.7913

SOLUTION

Aquifer Model: Unconfined

Solution Method: Tartakovsky-Neuman

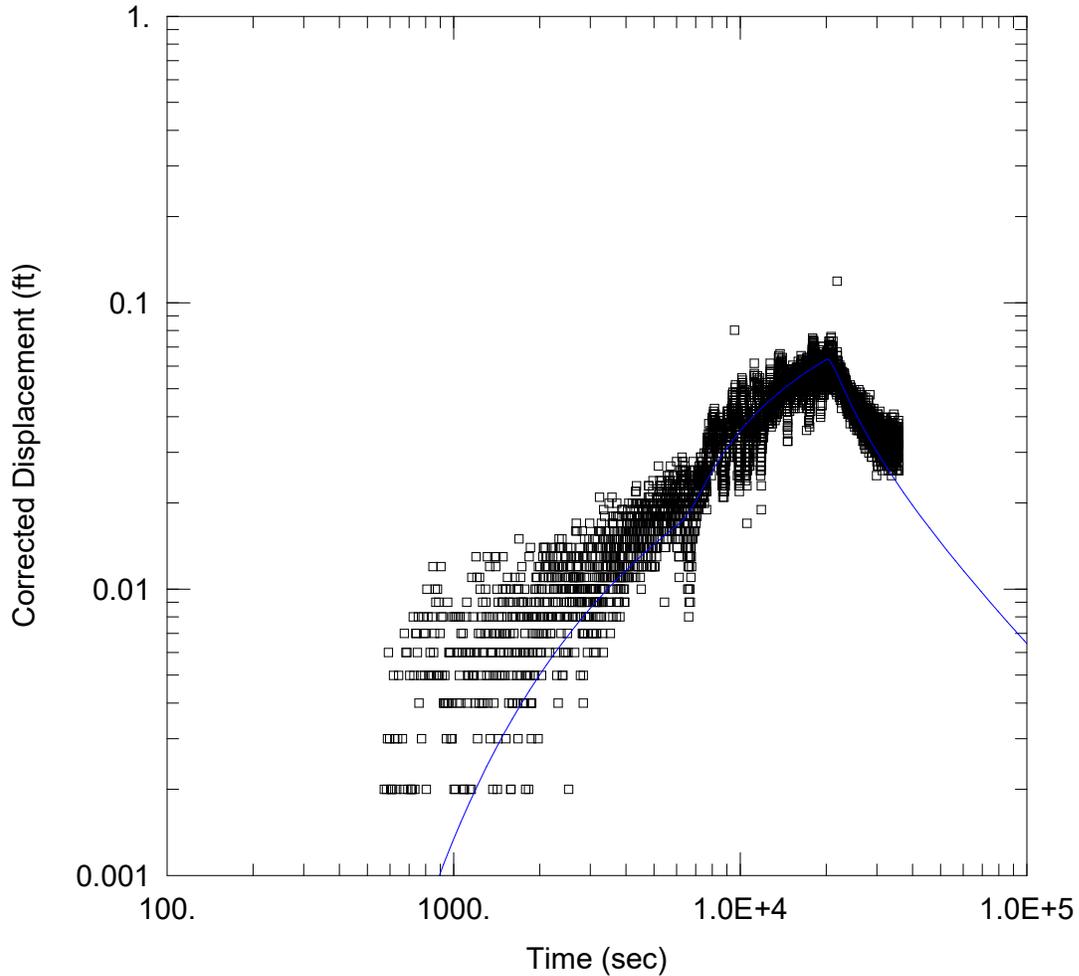
T = 277.9 ft²/day

S = 0.02412

Sy = 0.1

Kz/Kr = 0.001

kD = 5



WELL TEST ANALYSIS

Data Set: C:\...\EX-3A_PUMP_2A.aqt
 Date: 08/14/25

Time: 23:01:09

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: EX-2A
 Test Date: 8/7/25

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-2A	2771391.743	966870.701	□ EX-3A	2771424.729	966843.7913

SOLUTION

Aquifer Model: Unconfined

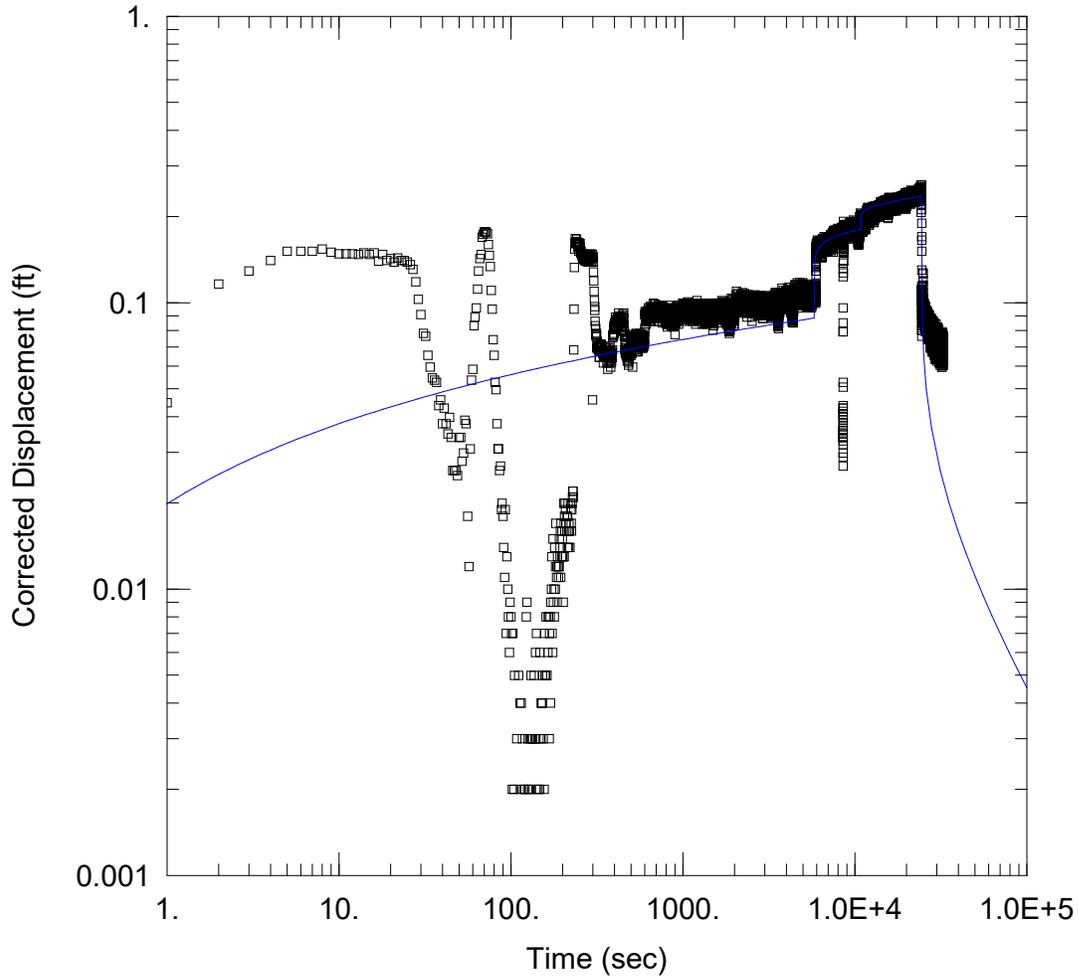
Solution Method: Theis

T = 441.8 ft²/day

S = 0.01892

Kz/Kr = 0.1023

b = 3.5 ft



WELL TEST ANALYSIS

Data Set: C:\...\EX-3A_PUMP_3A.aqt
 Date: 08/15/25

Time: 19:21:25

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: EX-3A
 Test Date: 8/6/25

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-3A	2771424.72	966843.7913	□ EX-3A	2771424.72	966843.7913

SOLUTION

Aquifer Model: Unconfined

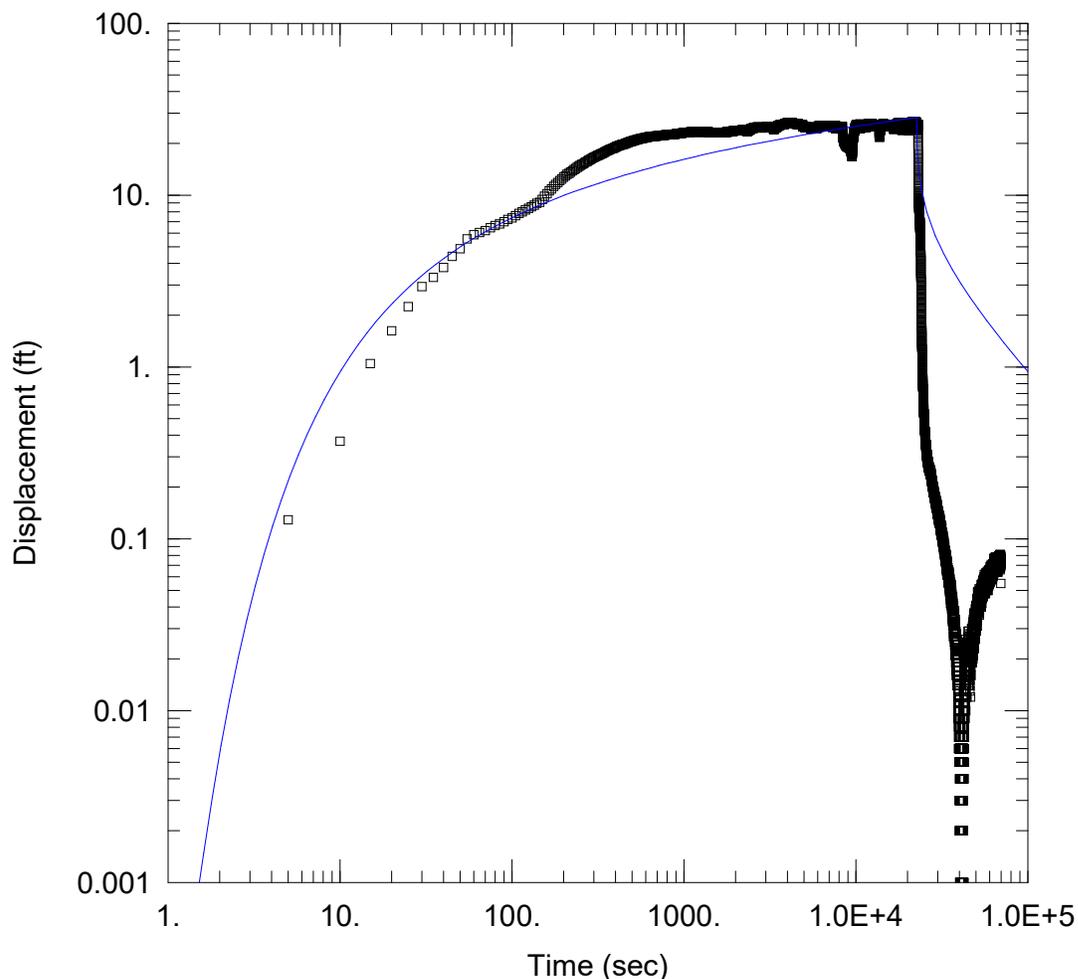
Solution Method: Theis

T = 963.5 ft²/day

S = 0.01955

Kz/Kr = 0.001035

b = 4. ft



WELL TEST ANALYSIS

Data Set: C:\...\INJ-01_INJ.aqt
 Date: 08/14/25

Time: 23:03:35

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: INJ-01
 Test Date: 8/8/25

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
INJ-01	2771443.82	966909.7635

Observation Wells

Well Name	X (ft)	Y (ft)
□ INJ-01	2771443.82	966909.7635

SOLUTION

Aquifer Model: Unconfined

Solution Method: Tartakovsky-Neuman

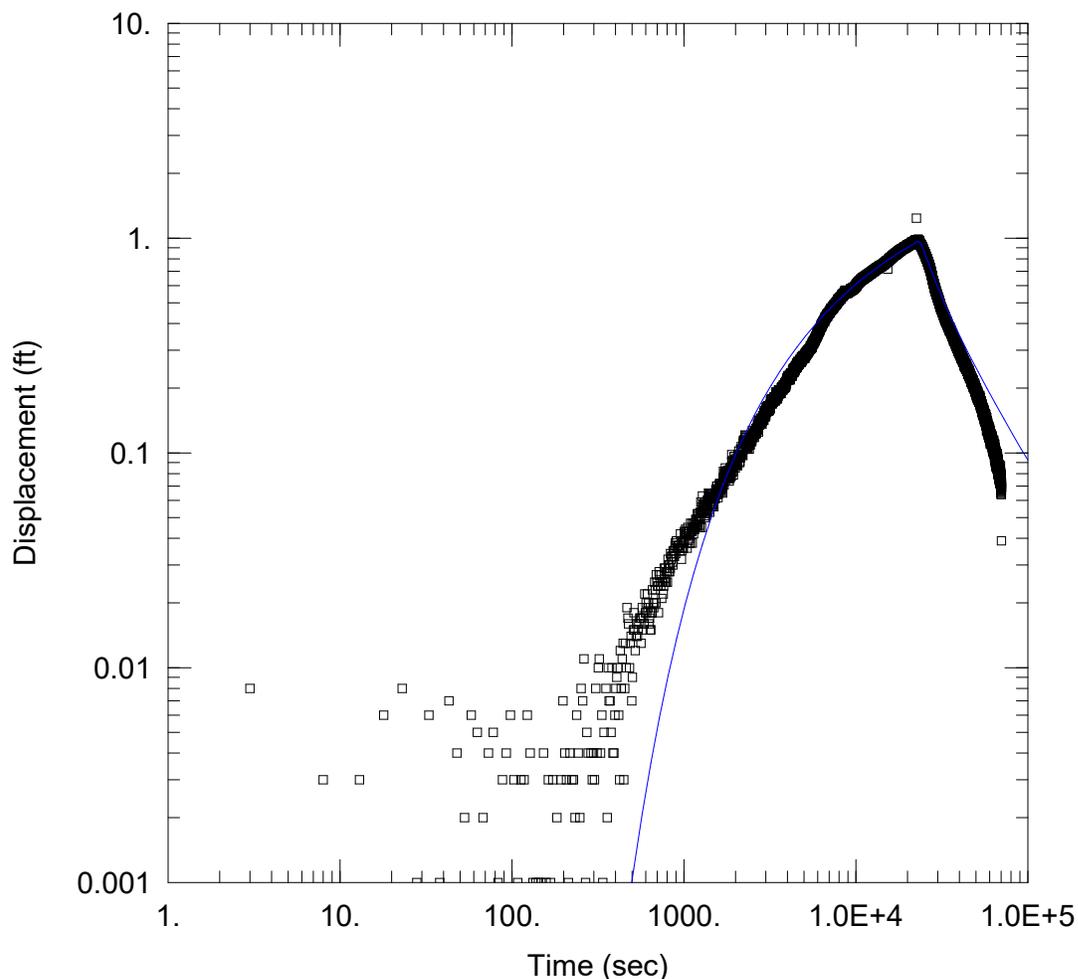
T = 26.39 ft²/day

S = 0.1055

Sy = 0.1

Kz/Kr = 0.001

kD = 5



WELL TEST ANALYSIS

Data Set: C:\...\PMW-1A_INJ.aqt

Date: 08/14/25

Time: 23:26:05

PROJECT INFORMATION

Company: Haley & Aldrich

Client: SIGECO

Project: 0129420-038

Location: Posey, IN

Test Well: INJ-01

Test Date: 8/8/25

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
INJ-01	2771443.82	966909.7635	□ PMW-1A	2771417.78	966913.2358

SOLUTION

Aquifer Model: Unconfined

Solution Method: Tartakovsky-Neuman

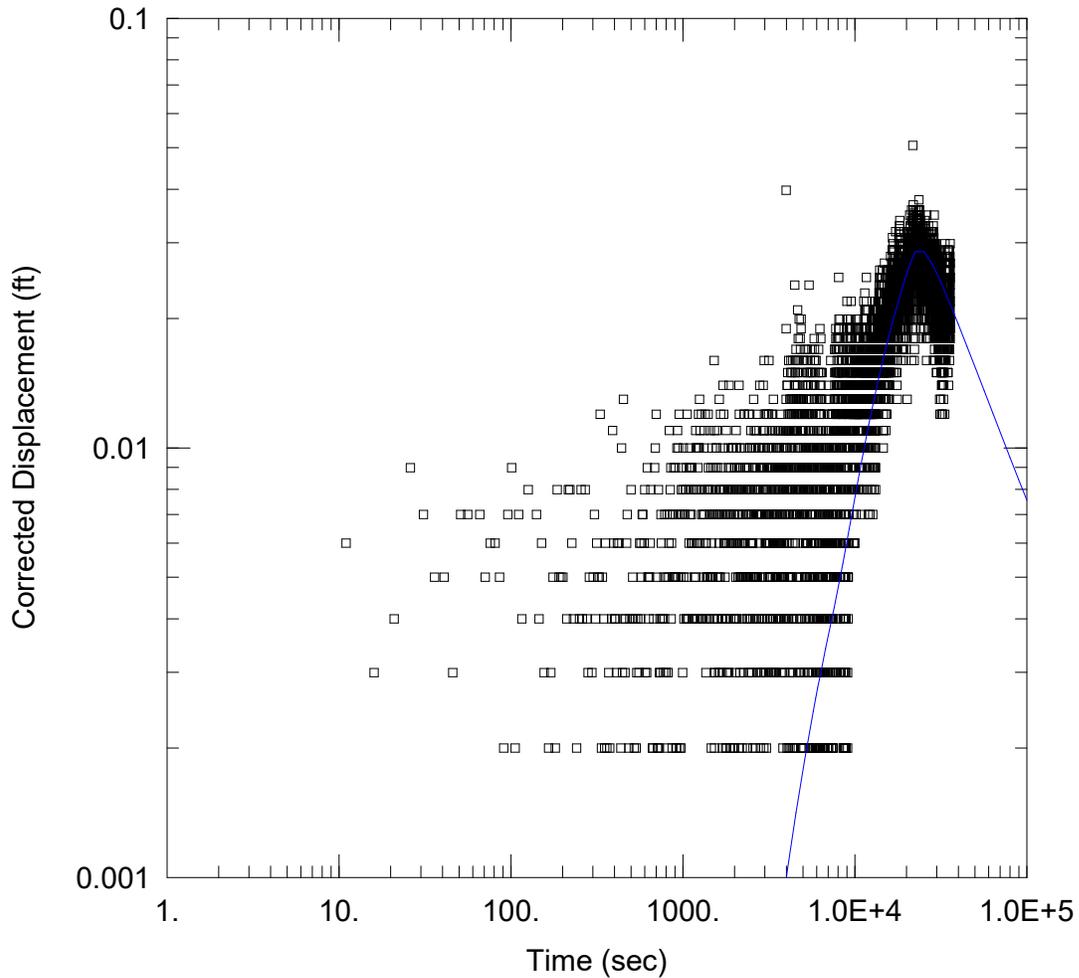
T = 165.2 ft²/day

S = 0.02579

Sy = 0.1

Kz/Kr = 0.001

kD = 5



WELL TEST ANALYSIS

Data Set: C:\...\PMW-1A_PUMP_2A.aqt
 Date: 08/14/25

Time: 23:26:37

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: EX-2A
 Test Date: 8/7/25

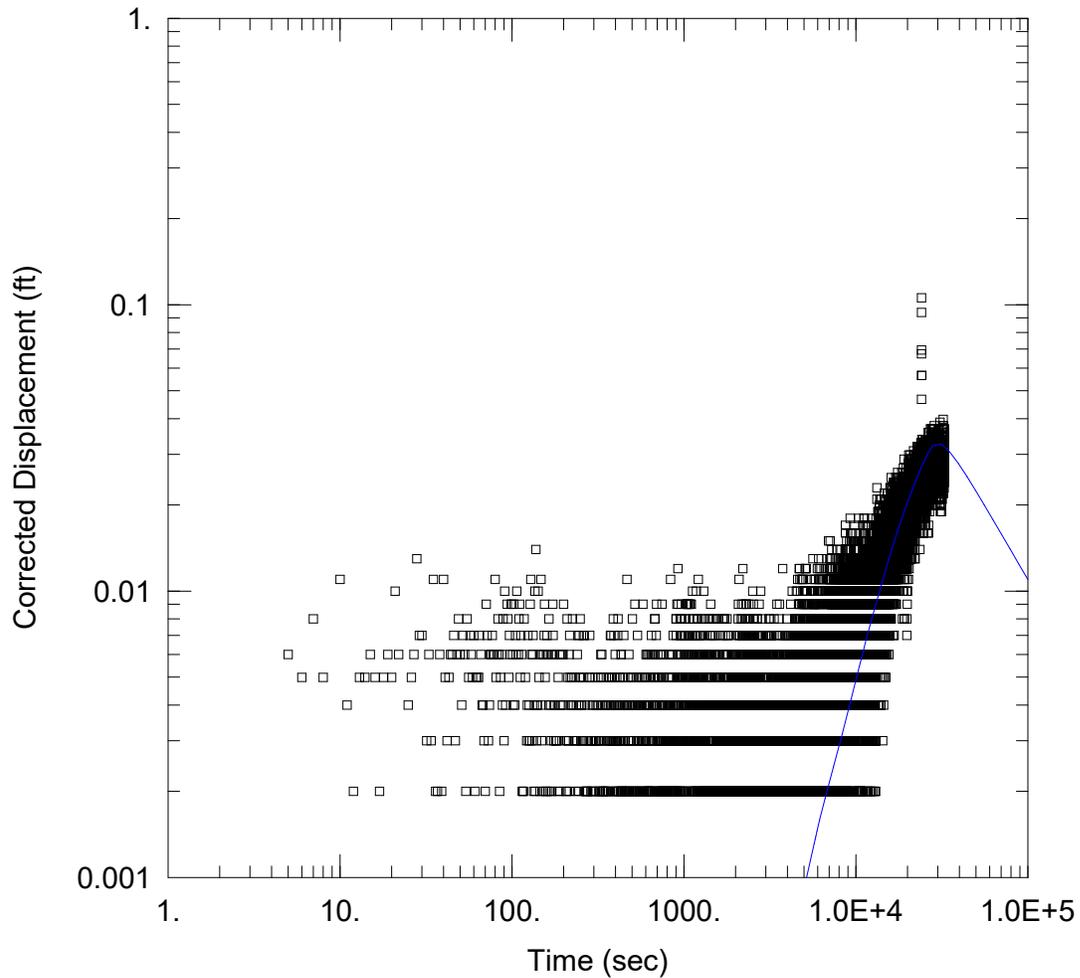
WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-2A	2771391.743	966870.701	□ PMW-1A	2771417.784	966913.2358

SOLUTION

Aquifer Model: Unconfined
 $T = 350.2 \text{ ft}^2/\text{day}$
 $Kz/Kr = 0.001$

Solution Method: Theis
 $S = 0.05337$
 $b = 3.5 \text{ ft}$



WELL TEST ANALYSIS

Data Set: C:\...\PMW-1A_PUMP_3A.aqt

Date: 08/15/25

Time: 19:21:51

PROJECT INFORMATION

Company: Haley & Aldrich

Client: SIGECO

Project: 0129420-038

Location: Posey, IN

Test Well: EX-3A

Test Date: 8/6/25

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-3A	2771424.729	966843.7913	□ PMW-1A	2771417.784	966913.2358

SOLUTION

Aquifer Model: Unconfined

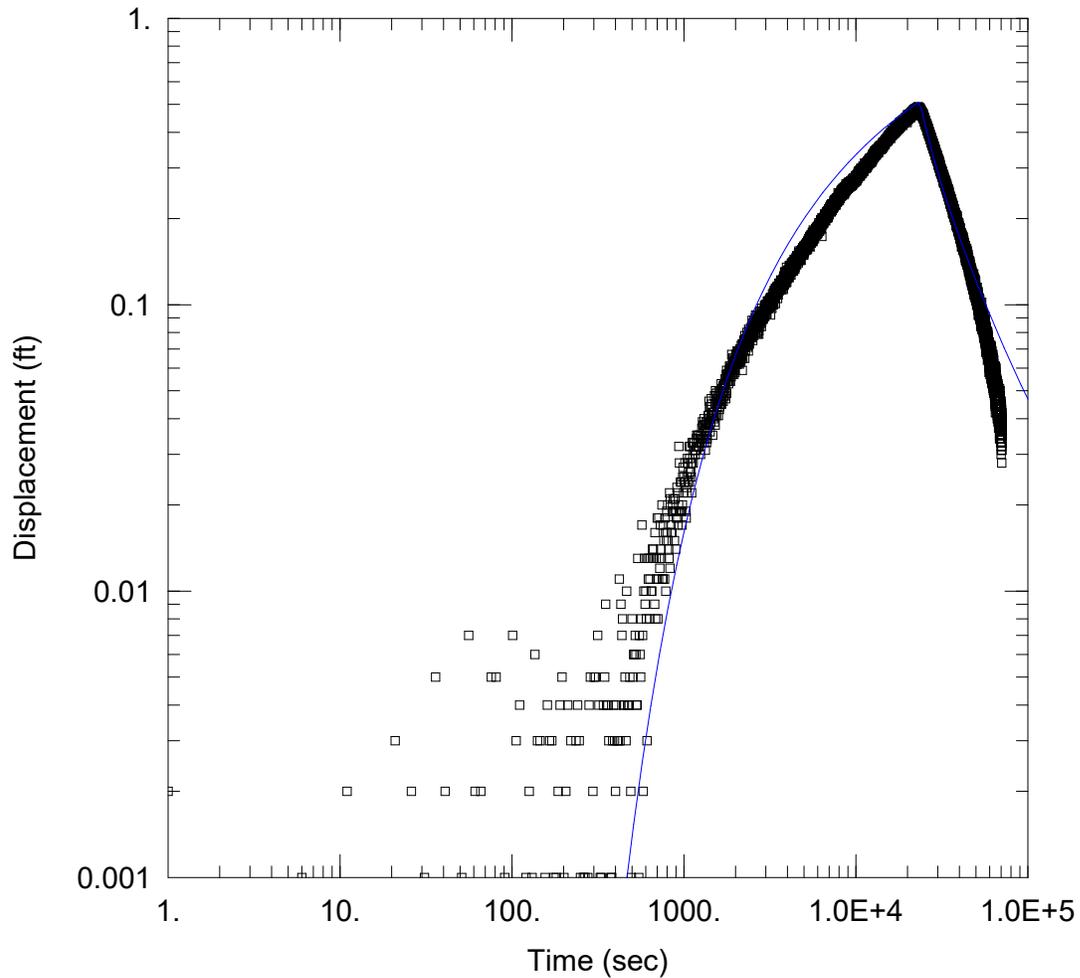
Solution Method: Theis

T = 350.1 ft²/day

S = 0.0353

Kz/Kr = 0.001035

b = 4. ft



WELL TEST ANALYSIS

Data Set: C:\...\PMW-2A_INJ.aqt
 Date: 08/14/25

Time: 23:26:16

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: INJ-01
 Test Date: 8/8/25

AQUIFER DATA

Saturated Thickness: 4. ft

Anisotropy Ratio (Kz/Kr): 0.001

WELL DATA

Pumping Wells

Observation Wells

Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
INJ-01	2771443.82	966909.7635	□ PMW-2A	2771429.93	966887.1941

SOLUTION

Aquifer Model: Unconfined

Solution Method: Tartakovsky-Neuman

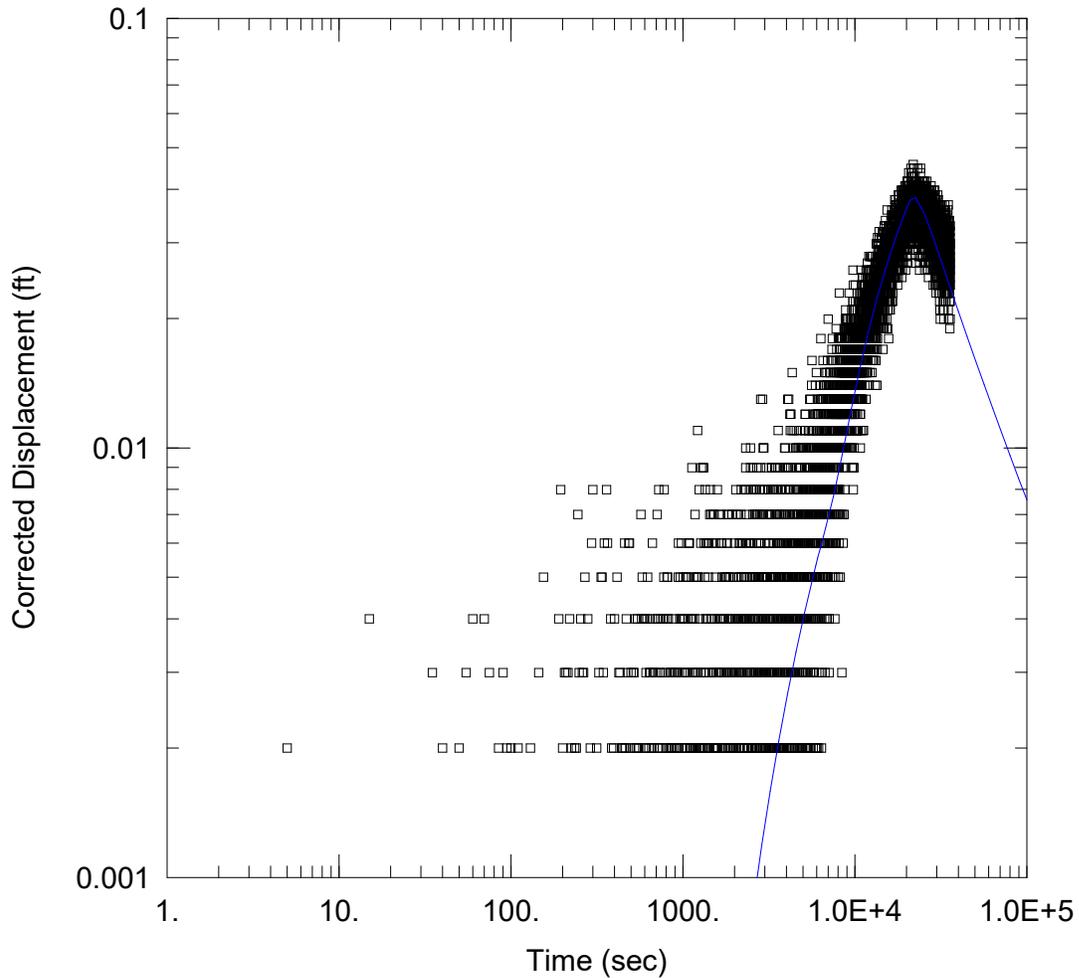
T = 347.1 ft²/day

S = 0.04336

Sy = 0.1

Kz/Kr = 0.001

kD = 5



WELL TEST ANALYSIS

Data Set: C:\...\PMW-2A_PUMP_2A.aqt
 Date: 08/14/25

Time: 23:26:46

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: EX-2A
 Test Date: 8/7/25

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-2A	2771391.743	966870.701	□ PMW-2A	2771429.937	966887.194

SOLUTION

Aquifer Model: Unconfined

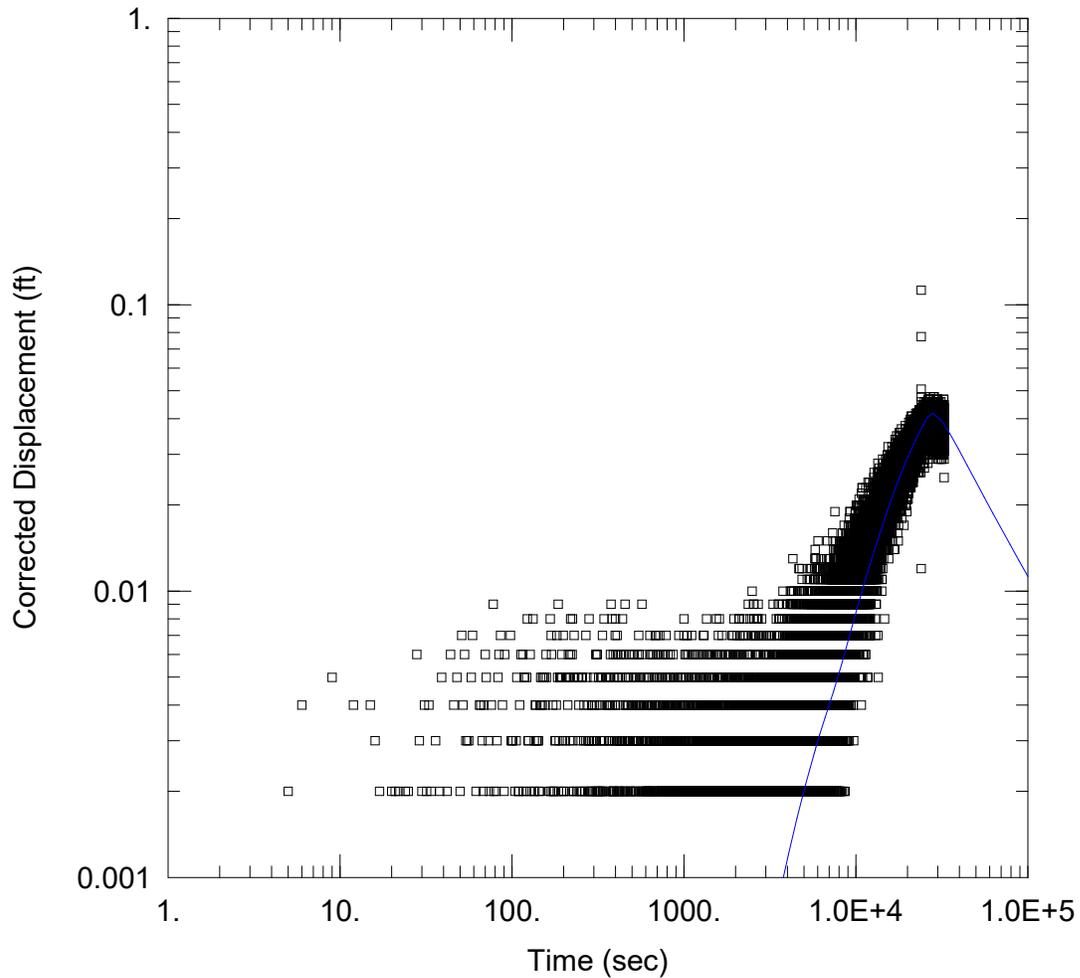
Solution Method: Theis

T = 360.4 ft²/day

S = 0.05275

Kz/Kr = 0.1059

b = 3.5 ft



WELL TEST ANALYSIS

Data Set: C:\...\PMW-2A_PUMP_3A.aqt
 Date: 08/15/25

Time: 19:22:55

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: SIGECO
 Project: 0129420-038
 Location: Posey, IN
 Test Well: EX-3A
 Test Date: 8/6/25

WELL DATA

Pumping Wells			Observation Wells		
Well Name	X (ft)	Y (ft)	Well Name	X (ft)	Y (ft)
EX-3A	2771424.72	966843.7913	□ PMW-2A	2771429.93	966887.1941

SOLUTION

Aquifer Model: Unconfined

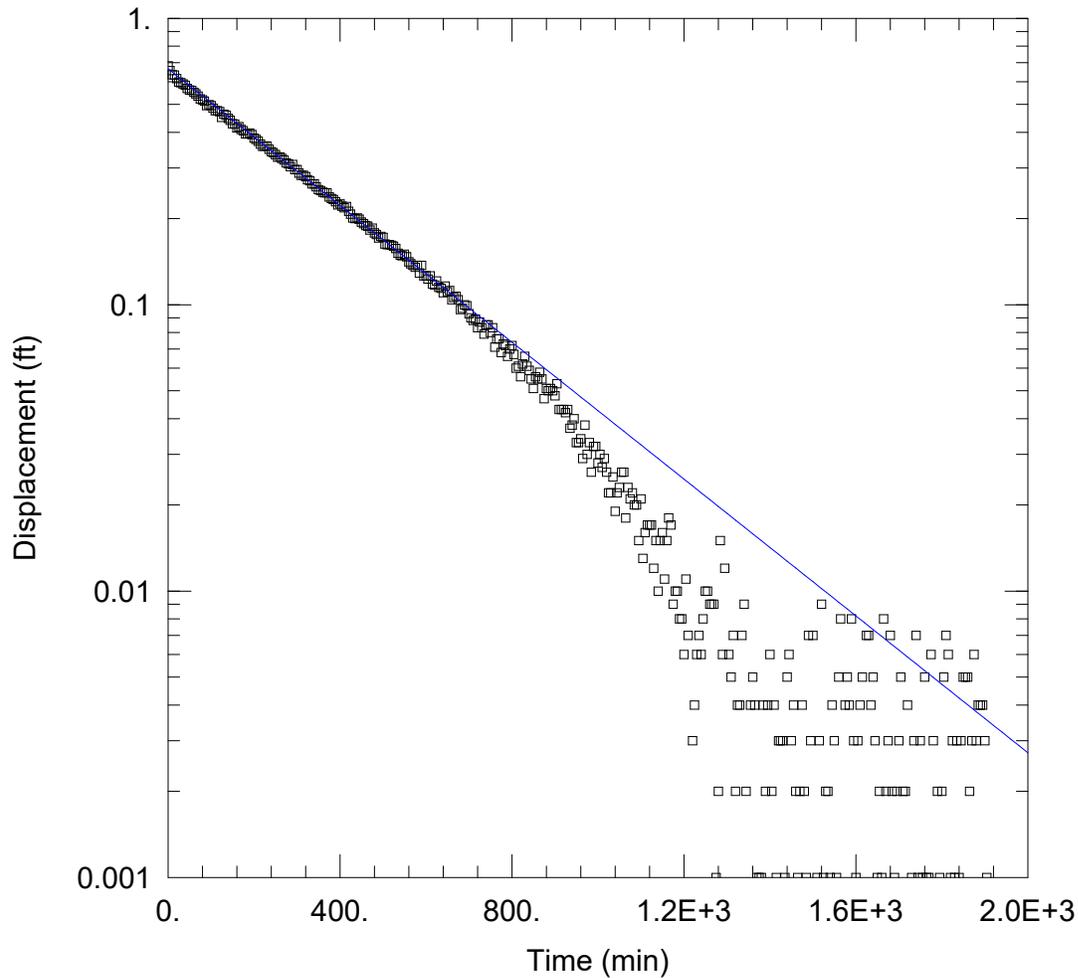
Solution Method: Theis

T = 353.4 ft²/day

S = 0.06629

Kz/Kr = 0.001035

b = 4. ft



WELL TEST ANALYSIS

Data Set: C:\Users\nschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX01A OUT 1.aqt
 Date: 08/03/25 Time: 16:14:17

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-01A

AQUIFER DATA

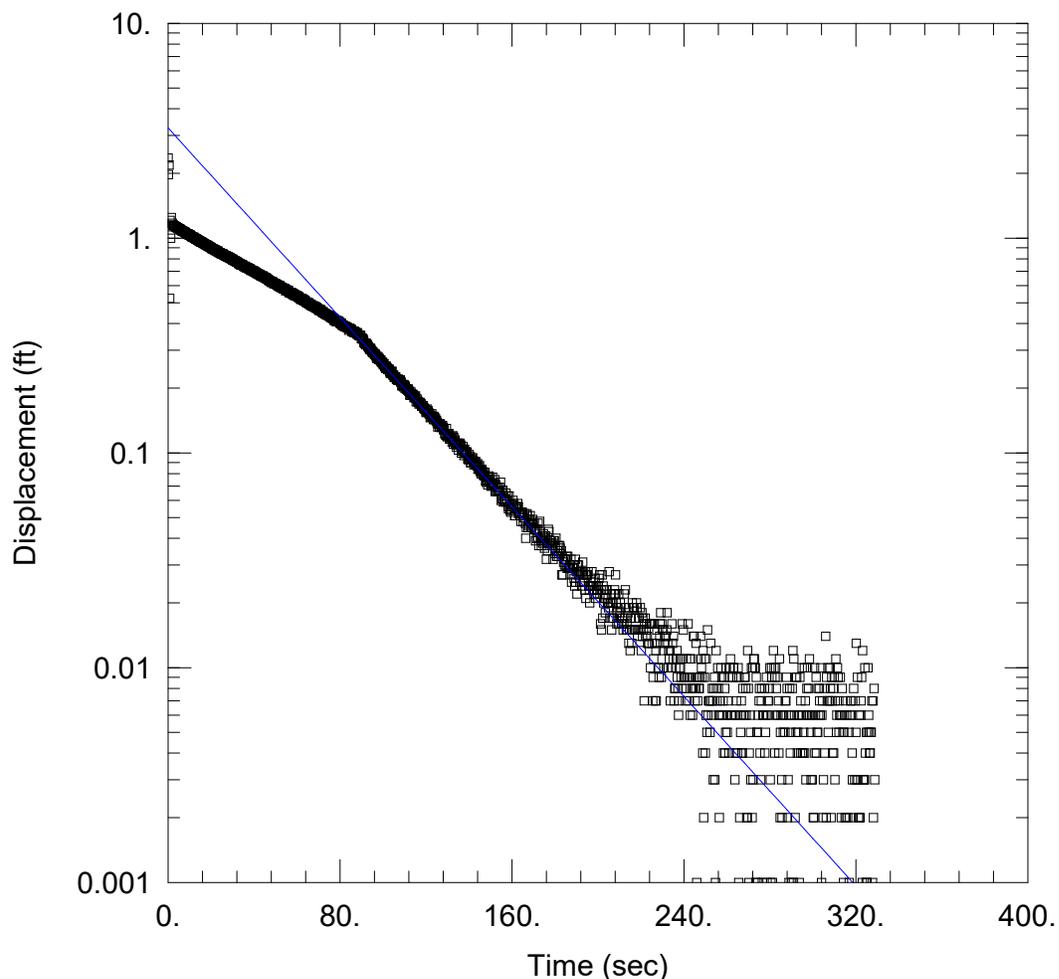
Saturated Thickness: 8.5 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-01A)

Initial Displacement: 0.683 ft Static Water Column Height: 8.5 ft
 Total Well Penetration Depth: 8.5 ft Screen Length: 8.5 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 1.138E-5 cm/sec y0 = 0.6666 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX02A in 1.aqt
 Date: 08/03/25 Time: 17:26:05

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-02A

AQUIFER DATA

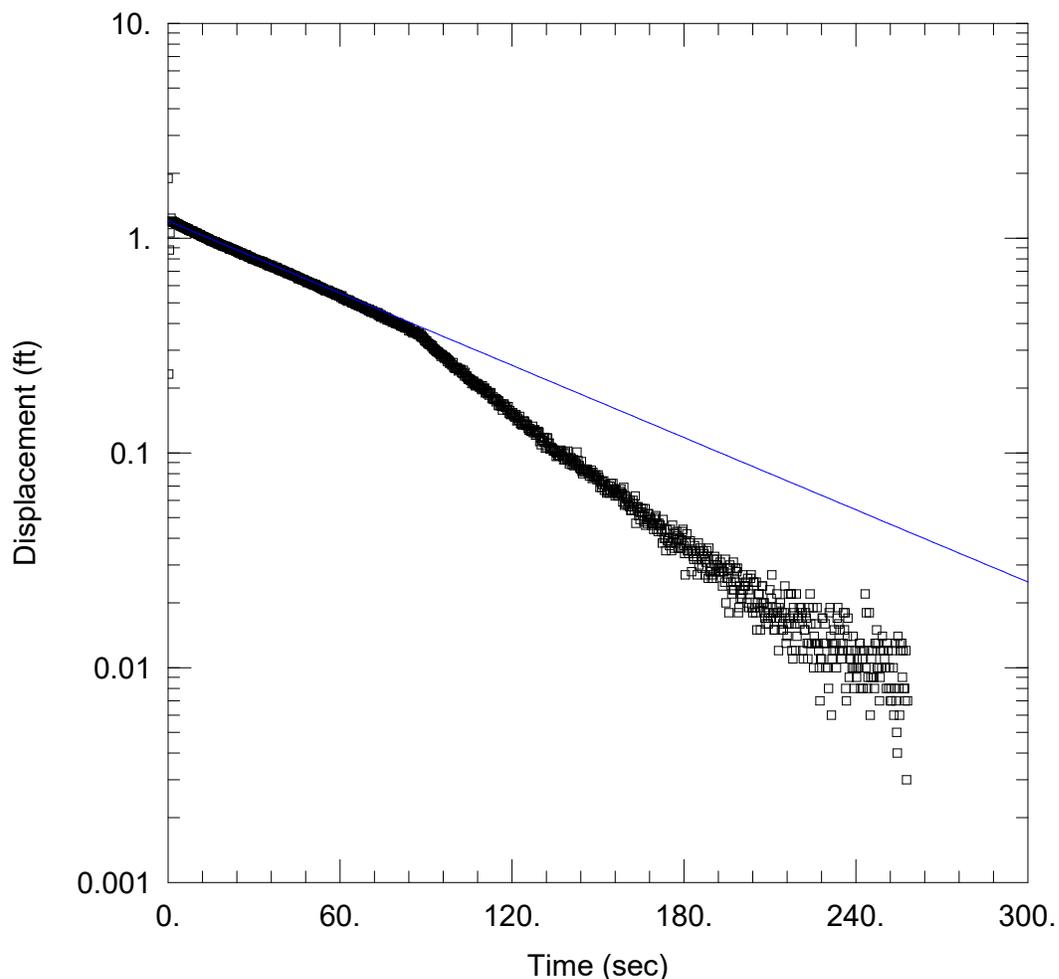
Saturated Thickness: 3.63 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-02A)

Initial Displacement: 2.36 ft Static Water Column Height: 3.63 ft
 Total Well Penetration Depth: 3.63 ft Screen Length: 3.63 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.01042 cm/sec y0 = 3.256 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX02A IN 2.aqt
 Date: 08/03/25 Time: 17:35:00

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-02A

AQUIFER DATA

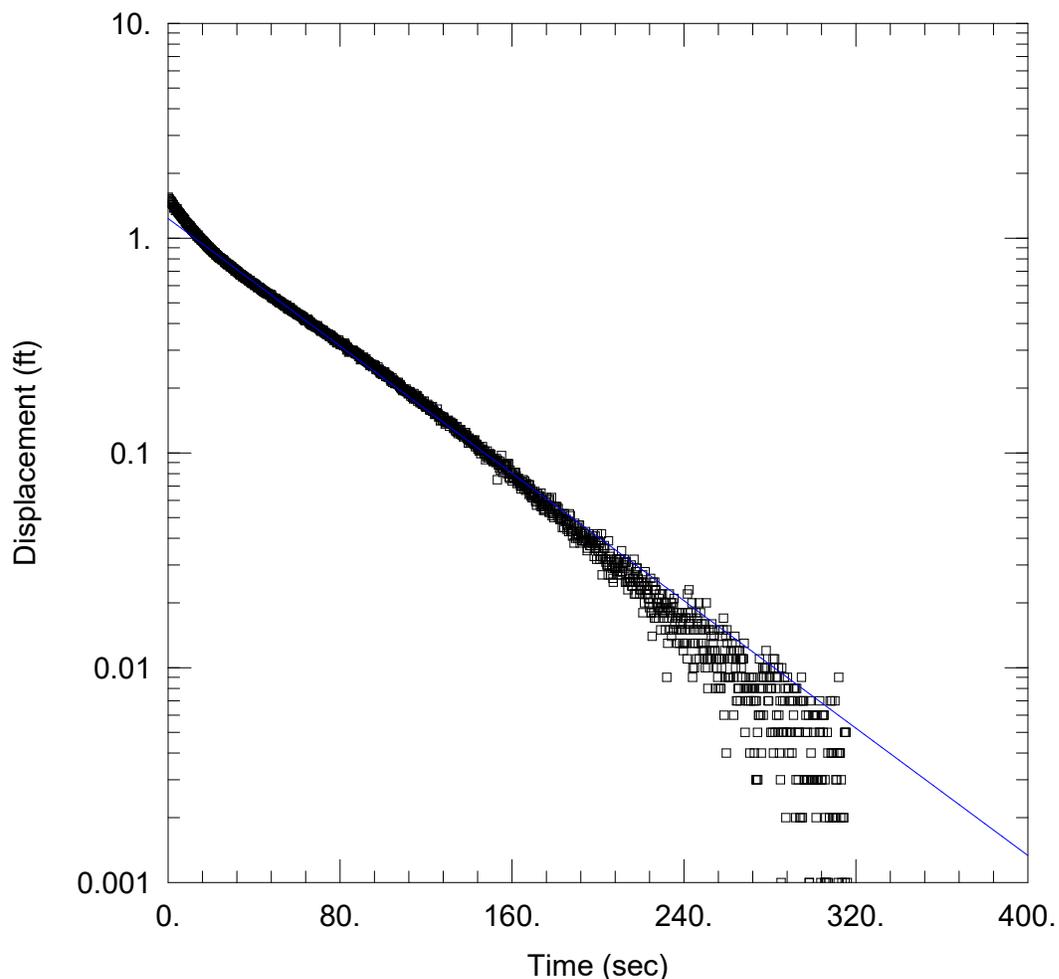
Saturated Thickness: 3.63 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-02A)

Initial Displacement: 1.895 ft Static Water Column Height: 3.63 ft
 Total Well Penetration Depth: 3.63 ft Screen Length: 3.63 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.005295 cm/sec $y_0 =$ 1.202 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX02A OUT 1.aqt
 Date: 08/03/25 Time: 17:02:13

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-02A

AQUIFER DATA

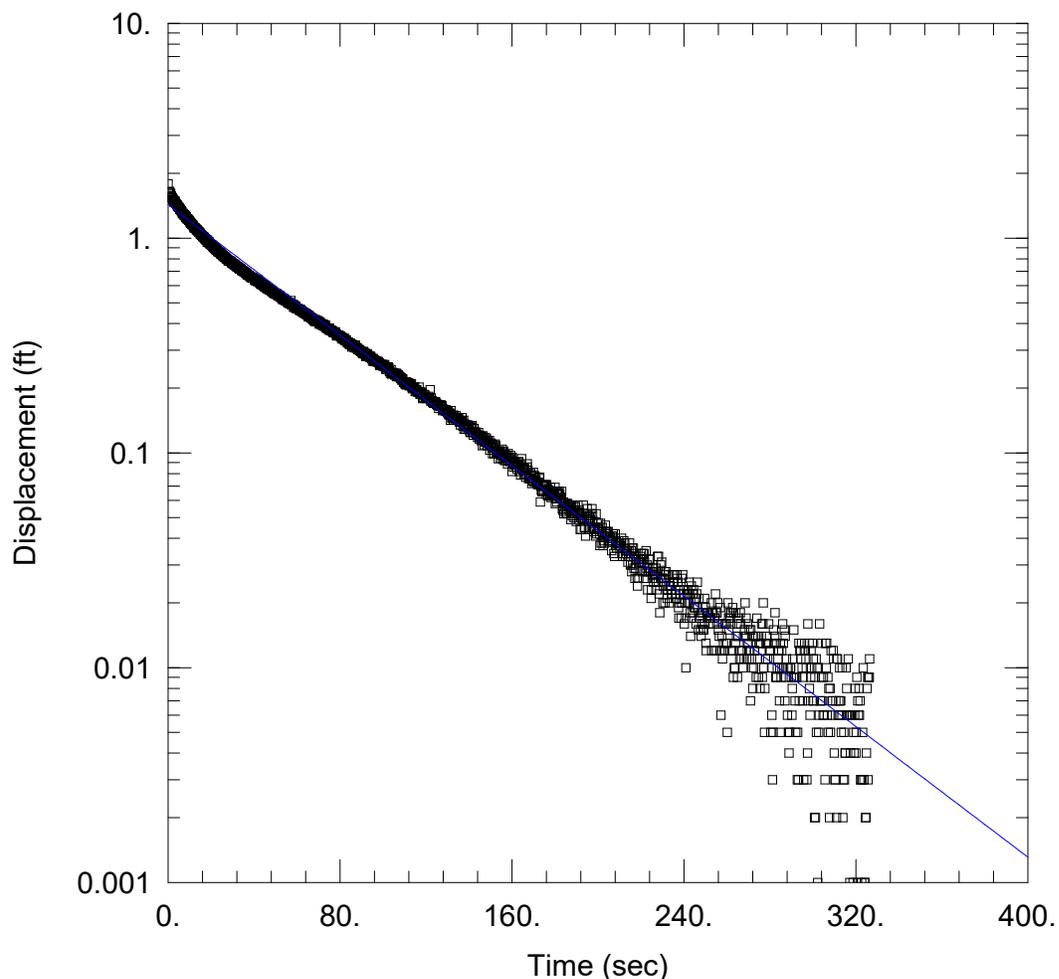
Saturated Thickness: 3.63 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-02A)

Initial Displacement: 1.552 ft Static Water Column Height: 3.63 ft
 Total Well Penetration Depth: 3.63 ft Screen Length: 3.63 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.007005 cm/sec $y_0 =$ 1.232 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX02A OUT 2.aqt
 Date: 08/03/25 Time: 17:32:03

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-02A

AQUIFER DATA

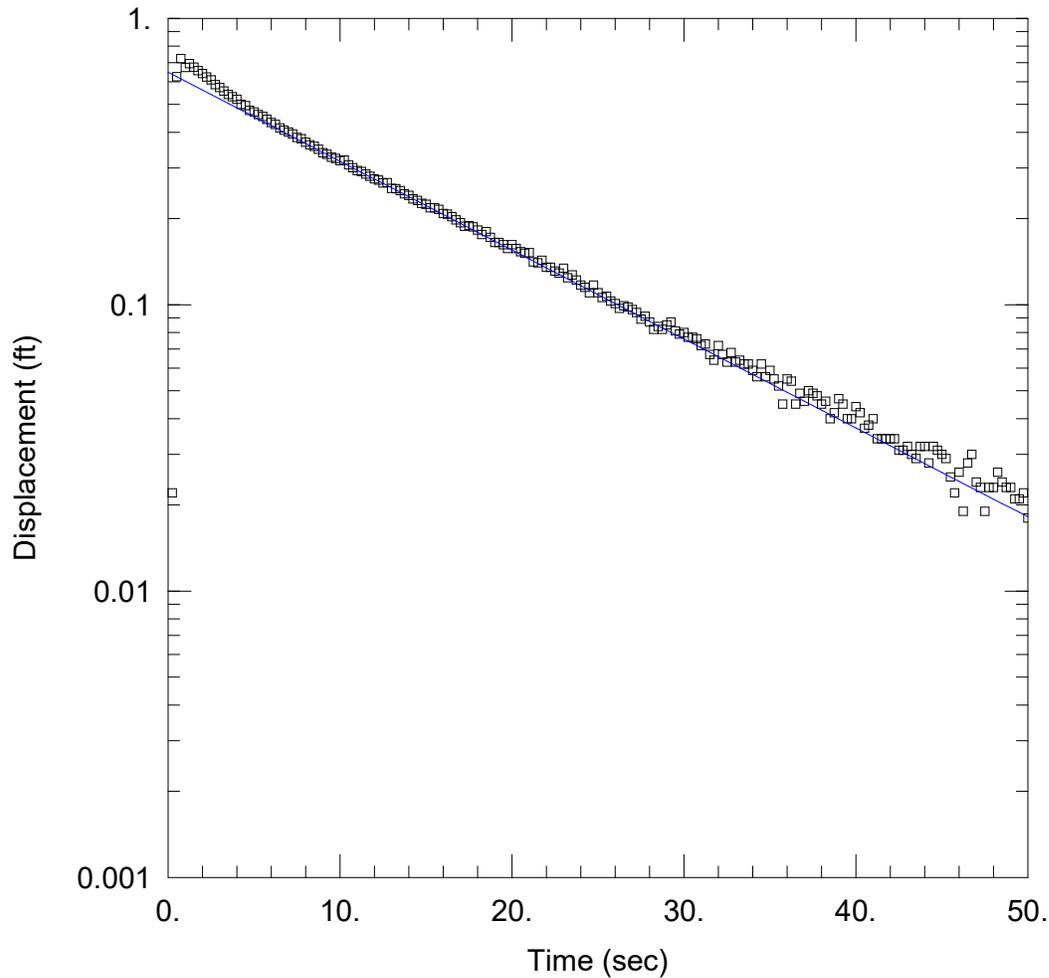
Saturated Thickness: 3.63 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-02A)

Initial Displacement: 1.791 ft Static Water Column Height: 3.63 ft
 Total Well Penetration Depth: 3.63 ft Screen Length: 3.63 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.007176 cm/sec $y_0 =$ 1.432 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX03A IN 1.aqt
 Date: 08/03/25 Time: 17:57:27

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-03A

AQUIFER DATA

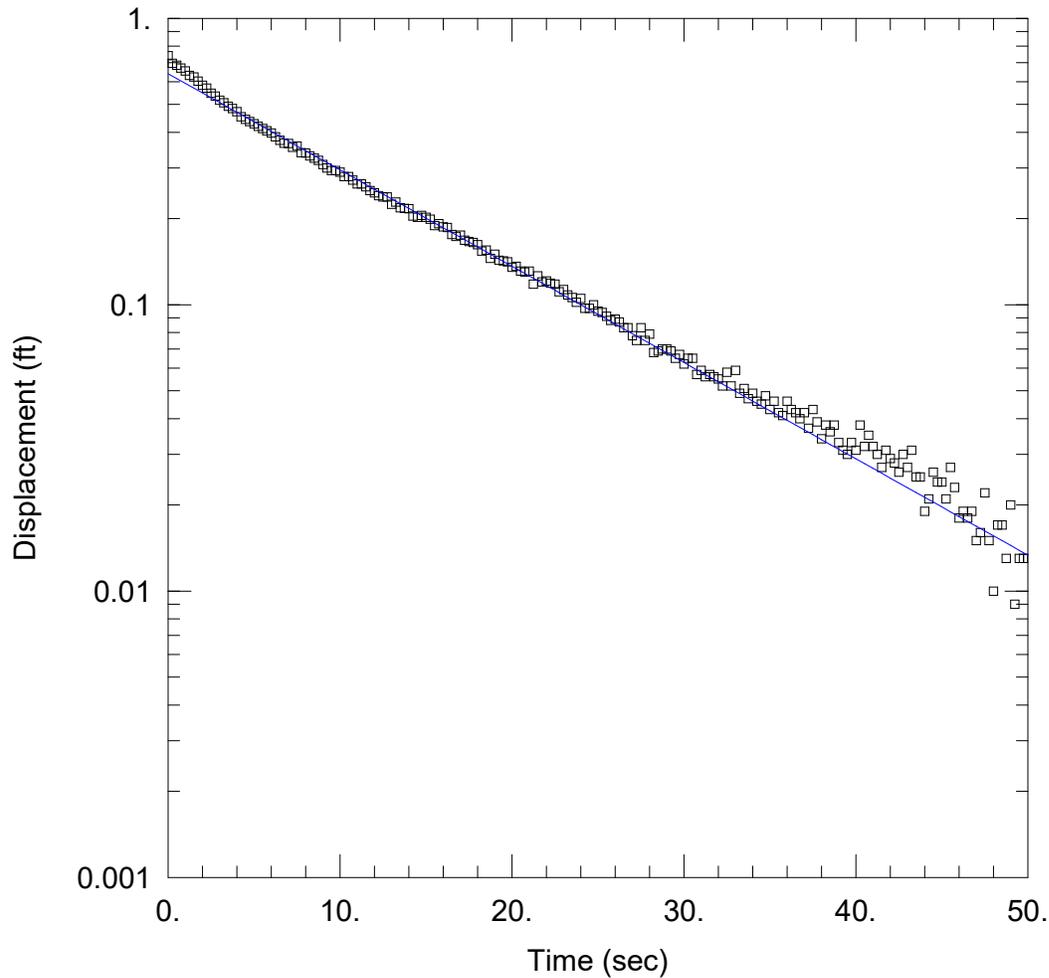
Saturated Thickness: 4.16 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-03A)

Initial Displacement: 1.724 ft Static Water Column Height: 4.16 ft
 Total Well Penetration Depth: 4.16 ft Screen Length: 4.16 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.02721 cm/sec y0 = 0.6479 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX03A IN 2.aqt
 Date: 08/03/25 Time: 18:07:10

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-03A

AQUIFER DATA

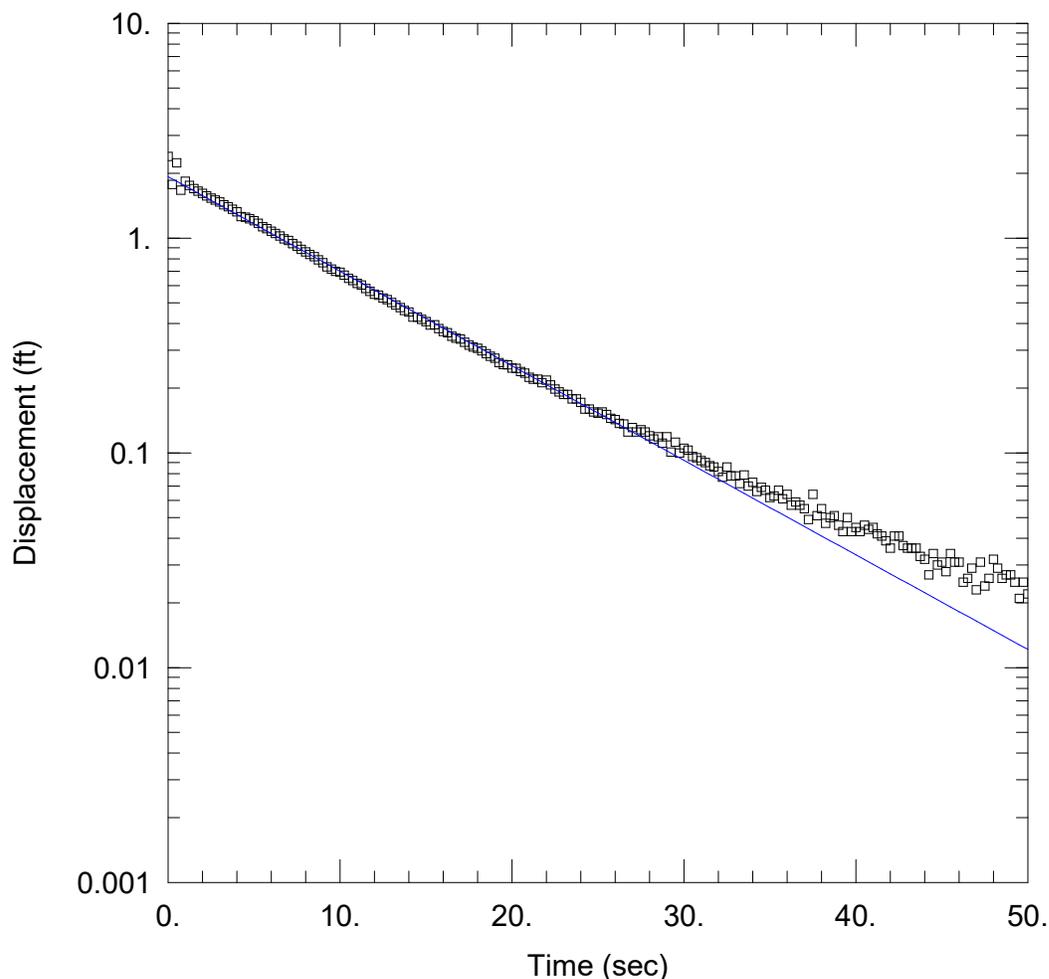
Saturated Thickness: 4.16 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-03A)

Initial Displacement: 0.74 ft Static Water Column Height: 4.16 ft
 Total Well Penetration Depth: 4.16 ft Screen Length: 4.16 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.02947 cm/sec y0 = 0.6406 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX03A OUT 1.aqt
 Date: 08/03/25 Time: 17:53:08

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-03A

AQUIFER DATA

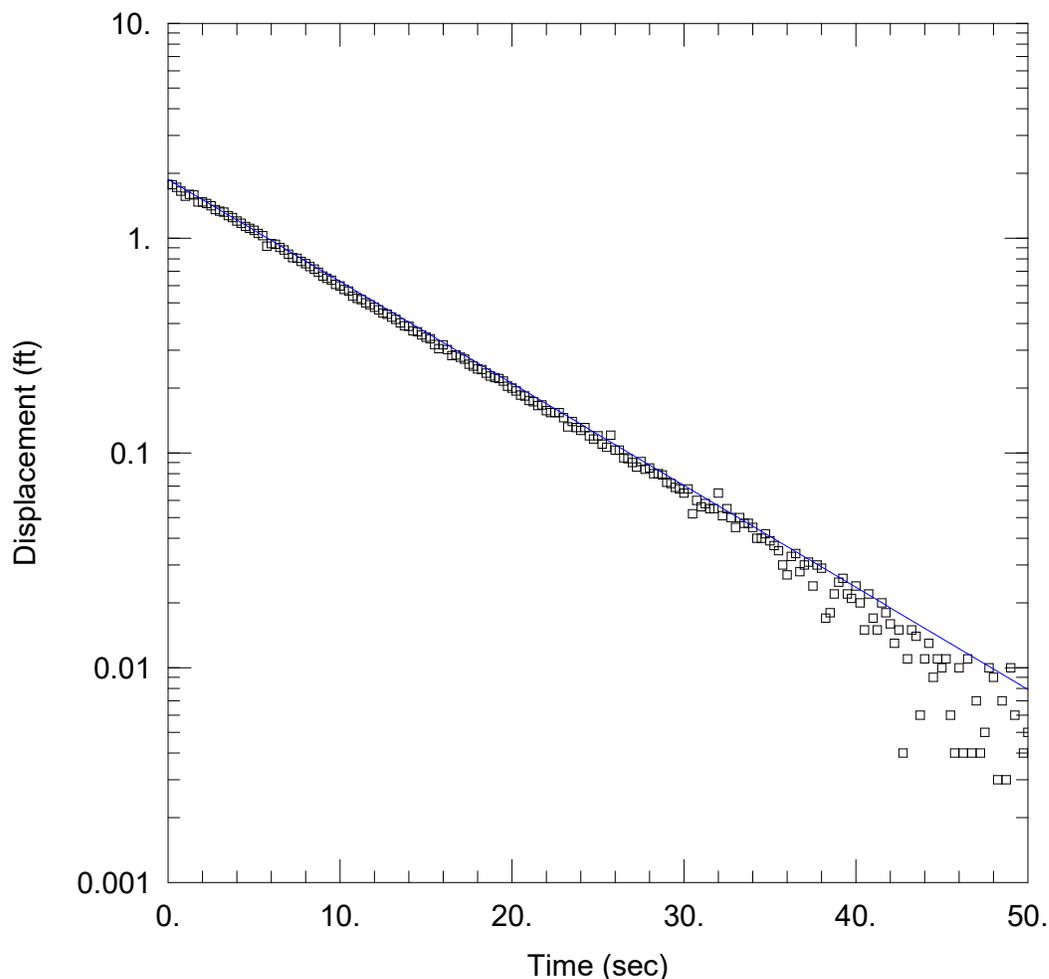
Saturated Thickness: 4.16 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-03A)

Initial Displacement: 2.395 ft Static Water Column Height: 4.16 ft
 Total Well Penetration Depth: 4.16 ft Screen Length: 4.16 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.03858 cm/sec $y_0 =$ 1.931 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\EX03A OUT 2.aqt
 Date: 08/03/25 Time: 17:59:47

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: EX-03A

AQUIFER DATA

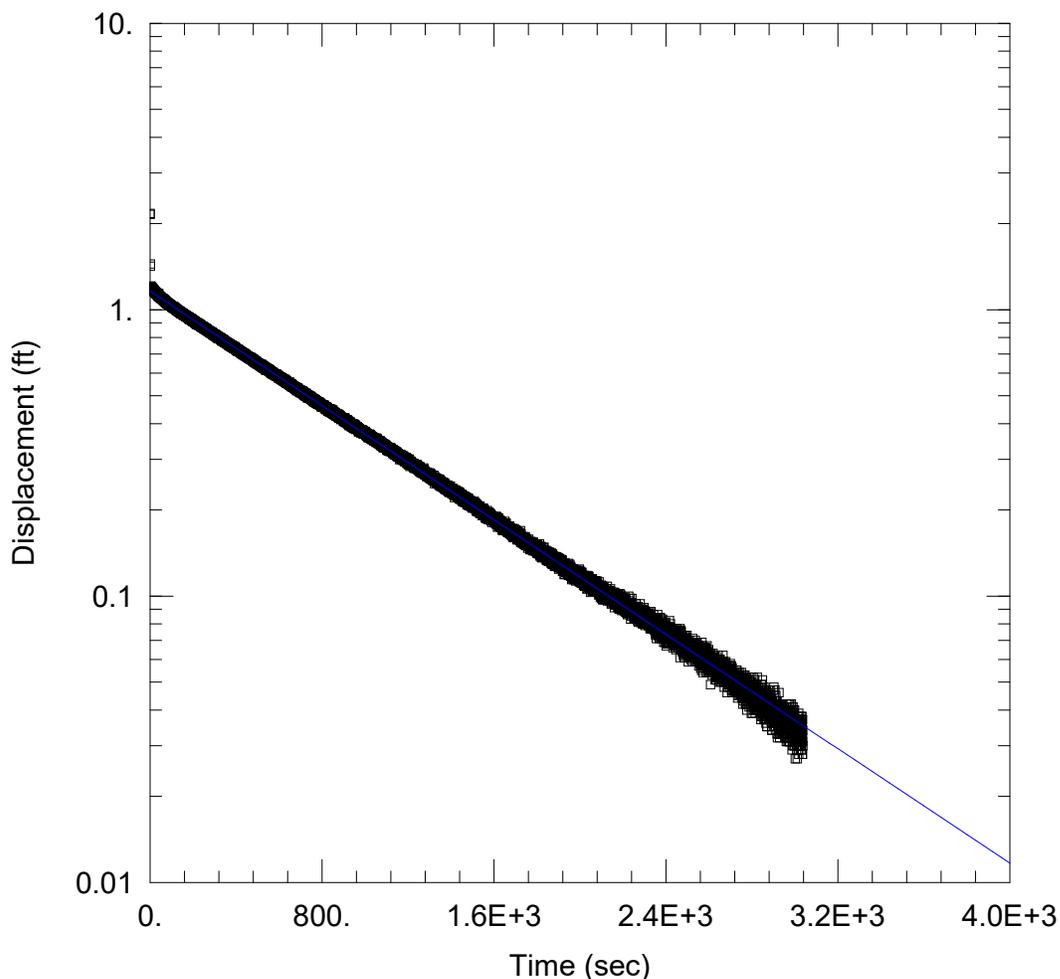
Saturated Thickness: 4.16 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (EX-03A)

Initial Displacement: 1.776 ft Static Water Column Height: 4.16 ft
 Total Well Penetration Depth: 4.16 ft Screen Length: 4.16 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.04162 cm/sec y0 = 1.876 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\INJ01 IN 1.aqt
 Date: 08/03/25 Time: 14:43:12

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: INJ-01

AQUIFER DATA

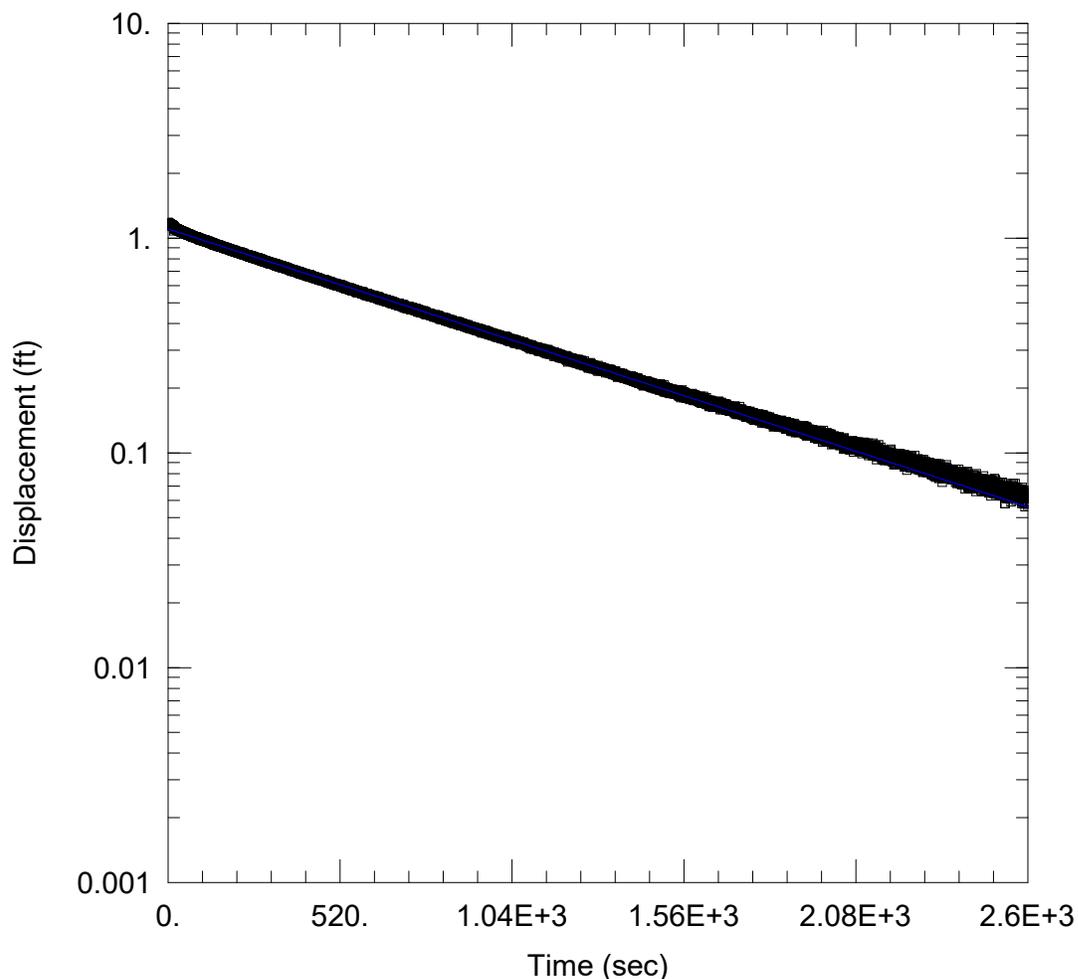
Saturated Thickness: 4.025 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (INJ-01)

Initial Displacement: 2.167 ft Static Water Column Height: 4.55 ft
 Total Well Penetration Depth: 4.55 ft Screen Length: 4.55 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0004631 cm/sec y0 = 1.162 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\INJ01 IN 2.aqt
 Date: 08/03/25 Time: 15:02:36

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: INJ-01

AQUIFER DATA

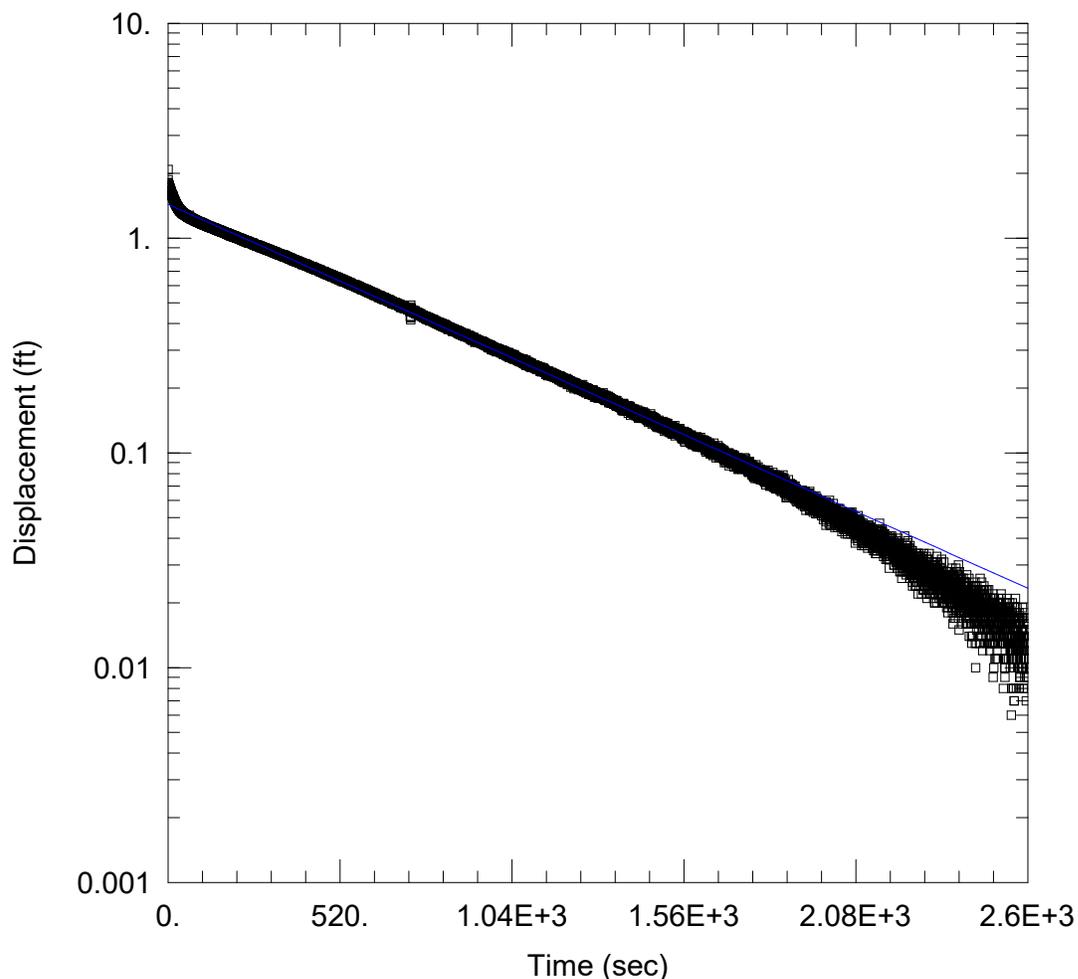
Saturated Thickness: 4.025 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (INJ-01)

Initial Displacement: 1.183 ft Static Water Column Height: 4.55 ft
 Total Well Penetration Depth: 4.55 ft Screen Length: 4.55 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0004614 cm/sec $y_0 =$ 1.103 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\INJ01 OUT 1.aqt
 Date: 08/03/25 Time: 14:49:51

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: INJ-01

AQUIFER DATA

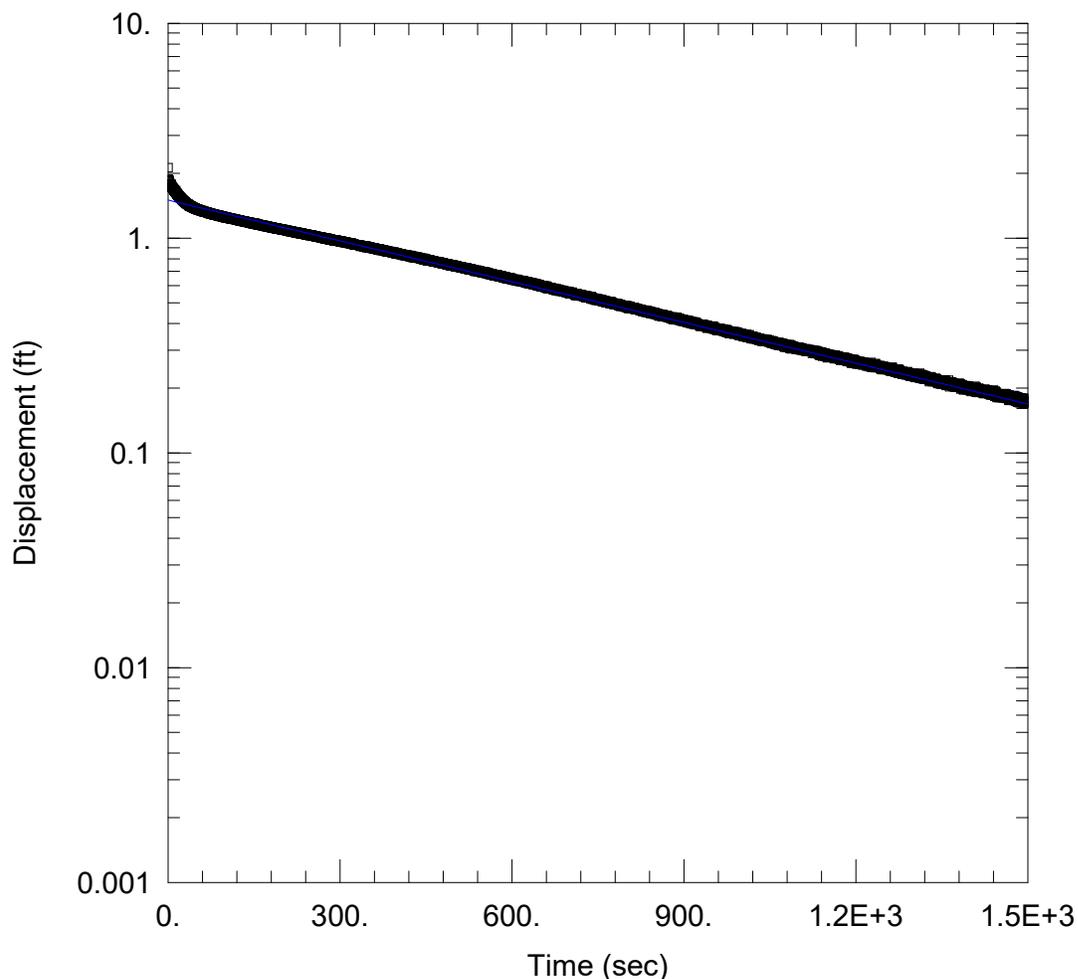
Saturated Thickness: 4.025 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (INJ-01)

Initial Displacement: 2.083 ft Static Water Column Height: 4.55 ft
 Total Well Penetration Depth: 4.55 ft Screen Length: 4.55 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.000586 cm/sec $y_0 =$ 1.345 ft



WELL TEST ANALYSIS

Data Set: C:\Users\inschaffer\OneDrive - haleyaldrich.com\ABB Pilot Slugs\INJ01 OUT 2.aqt
 Date: 08/03/25 Time: 15:21:31

PROJECT INFORMATION

Company: Haley & Aldrich
 Client: A.B. Brown
 Test Well: INJ-01

AQUIFER DATA

Saturated Thickness: 4.025 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (INJ-01)

Initial Displacement: 2.128 ft Static Water Column Height: 4.55 ft
 Total Well Penetration Depth: 4.55 ft Screen Length: 4.55 ft
 Casing Radius: 0.1667 ft Well Radius: 0.3333 ft
 Gravel Pack Porosity: 0.35

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.0005867 cm/sec y0 = 1.502 ft

APPENDIX E
Well Installation Logs

TEST BORING REPORT

Boring No. FD-PZ-5

File No. 0129420-038
Sheet No. 2 of 2

H&A-TEST BORING-09-REV-2 PLOG-HA-LIB09-BOS STANDARD ONLY-MARCH 2024.GLB H&A PLOG.GDT C:\USERS\ADENSON\HARRISON\DRIVE - HALEYALDRICH.COM\GINT PROJECTS\VECTREN CORPORATION - 0129420\AB BROWNING\INT\0129420-038-TB.GPJ 15 Jan 26

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION <small>(Density/consistency, color, GROUP NAME, max. particle size[†], structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)</small>	Gravel		Sand			Field Test						
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
20		S4 86	20.0 30.0	CL		Soft brown lean CLAY (CL), mps= 0.075 mm, no odor, moist												
					412.2 24.5	Similar to above, except dry Stiff red-brown CLAY (CL), approximately 5 cm clasts of oxidized mineral interbedded, dry												
25						Stiff, tan, SILTSTONE with interbedded red-brown to brown fine-grained SAND, bedding is thin, horizontal, extremely close, dry, friable -WEATHERED BEDROCK-												
30		S5 19	30.0 31.6															
					405.2 31.5 405.0 31.7	Hard, dark gray, LIMESTONE BOTTOM OF EXPLORATION 31.7 FT 7/23/25: 0800 DTW: 23.04 ft DTB: 30.24 ft												

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. FD-PZ-5

Project	A. B. BROWN GENERATION STATION, EVANSVILLE, IN	File No.	0129420-038
Client	SOUTHERN INDIANA GAS AND ELECTRIC COMPANY	Sheet No.	1 of 2
Contractor	CASCADE	Start	22 July 2025
		Finish	22 July 2025

	Casing	Sampler	Barrel	Drilling Equipment and Procedures	Driller	Chris Bond
Type		Sonic		Rig Make & Model: BOART LONGYEAR LS200	H&A Rep.	F. Reed
Inside Diameter (in.)		4		Bit Type: Sonic	Elevation	465.4
Hammer Weight (lb)		-		Drill Mud: None	Datum	NAVD88
Hammer Fall (in.)		-		Casing: Sonic	Location	
				Hoist/Hammer: None		N 968843.6
				PID Make & Model: Not used		E 2771676.17

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size [†] , structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test							
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0						-GRAVEL-													
		S1 36	0.0 5.0		464.4 1.0	Soft yellow-brown lean CLAY (CL), mps= 0.075 mm, no odor, moist													
				CL		Black fine-grained coal ash from 2 to 2.5 ft 50% clay with 50% interbedded coal ash from 2.5 to 3 ft													
5		S2 36	5.0 10.0			Black fine-grained coal ash, clay interbedded with coal ash from 5.5 to 6 ft													
				CL		Soft yellow-brown lean CLAY (CL), mps= 0.075 mm, no odor, moist													
10		S3 95	10.0 20.0			Similar to above, except interbedded coal ash, 90% clay and 10% coal ash													
				CL		Soft yellow-brown lean CLAY (CL), mps= 0.075 mm, no odor, wet													
15						Medium stiff red-brown lean CLAY (CL), mps= 0.075 mm, no odor, moist													
20		S4 94	20.0 30.0			Stiff red lean CLAY (CL), mps= 0.075 mm, no odor, moist													

Water Level Data					Sample ID		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod	T - Thin Wall Tube	U - Undisturbed Sample	S - Split Spoon Sample	Overburden (ft)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water						
										50.0	0.0
										Boring No.	FD-PZ-6

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

[†]Note: Maximum particle size is determined by direct observation within the limitations of sampler size.
 Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-09-REV-2 PLOG-HA-LIB09-BOS STANDARD ONLY-MARCH 2024 GLB H&A PLOG.GDT C:\USERS\ADENSON\HARRISON\ONEDRIVE - HALEYALDRICH.COM\GINT PROJECTS\VECTREN CORPORATION - 0129420-AB BROWNING\INT0129420-038-TB.GPJ 15 Jan 26

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	USCS Symbol	Stratum Change Elev/Depth (ft)	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size [†] , structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test							
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
25						Soft yellow-brown lean CLAY (CL), with some stiff red lean CLAY (CL), interbedded													
						Medium stiff to stiff red lean CLAY (CL), increasing competency with depth, interbedded clasts of oxidized mineral													
30		S5 120	30.0 40.0			Stiff gray-blue CLAY (CL), mps= 0.075 mm, no odor, dry, interbedded with red-brown, fine-grained CLAY (CL)						100							
						Stiff black, gray-blue, red-brown, and brown CLAY (CL), no odor, moist							100						
					427.4 38.0	Similar to above, except competency increases with depth and color change to 50% gray-blue, 5% black, 25% red-brown, 20% light brown Similar to above, except noticeable banding, very stiff													
						Stiff, tan, SILTSTONE with interbedded red-brown, fine-grained SAND, oxidized, competent, exfoliated -WEATHERED BEDROCK-													
40		S6 116	40.0 50.0			Stiff, gray, SILTSTONE with some interbedded fine-grained red-brown SAND, larger dark red oxidized clasts at 40.6 ft													
						Stiff, weathered, gray, aphanitic, SHALE, interbedded with fine-grained tan to red-brown SAND, bedding is thin, horizontal, close, no odor, dry													
45						Stiff, weathered, tan, fine-grained SANDSTONE, no odor, dry													
						Stiff, weathered, light to dark gray, aphanitic, SHALE, bedding is extremely thin, horizontal, extremely close, tight, dry, brittle, organic rich partings													
50					415.4 50.0	BOTTOM OF EXPLORATION 50.0 FT 1545 DTW: 20.0 ft DTB: 45.7 ft													

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.