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Illinois Environmental Protection Agency
BOW-Permits #15-CCR Coordinator
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DATE

04 September 2025

SUBJECT

Fourteenth Post-Closure
Groundwater Monitoring Report
Third Quarter 2025
Grand Tower Energy Center
Closed Coal Combustion Residuals
Impoundment
1820 Power Plant Rd
Grand Tower, IL 62942
BOW ID No. W0770400003

REFERENCE

ERM Project No. 0761817

To Whom it May Concern:

Environmental Resources Management Inc. (ERM) is submitting this report which provides the results and findings of the Grand Tower Energy Center (GTEC) quarterly post-closure groundwater sampling and closed coal combustion residuals (CCR) impoundment inspection event conducted during the third quarter 2025 at the GTEC facility located at 1820 Power Plant Rd, Grand Tower, Illinois (the "Site"). The third quarter groundwater sampling event took place between 03 September and 05 September 2025, and the closed impoundment inspection event was conducted on 05 September 2025. A Site location map is provided in Figure 1.

The third quarter 2025 groundwater sampling event was performed in accordance with the post-closure groundwater monitoring program presented within the Grand Tower Operating Permit Application (OPA) submitted to the Illinois Environmental Protection Administration (IEPA) on 28 October 2021, as modified in accordance with the Consolidated IEPA Comments dated 17 March 2022 and included in the updated Closure/Post-Closure Plan submitted to the IEPA with the 27 February 2024 response to the 23 January 2023 OPA comment letter from the IEPA. The purpose of the sampling event was to continue the initial five-year period of quarterly groundwater monitoring for the evaluation of the concentration and areal distribution of impacts related to the closed CCR impoundment in Site groundwater. The parameters detected in the groundwater are associated with the historical CCR impoundment, which was capped and closed in 2020. The quarterly results include a summary of field activities, laboratory analytical, and documentation of other associated Site activity, as necessary.

Third quarter 2025 site activities, performed in accordance with the proposed post-closure groundwater monitoring program, the results of which are summarized below, included:

- Inspection of the final cover system of the closed CCR impoundment.
- Inspection of the groundwater monitoring well array; and
- Groundwater monitoring activities.

QUARTERLY CLOSED CCR IMPOUNDMENT INSPECTION

During the third quarter of 2025, an inspection of the closed CCR impoundment cover system and associated features was completed, and the full quarterly inspection report can be found in Appendix A. Woody vegetation (up to 1" diameter) was noted within the riprap around the toe of the side slope of the CCR impoundment cap faces. Additionally, woody vegetation was noted in the outfall channel, which allows discharge of water within the basin at the foot of the closed CCR side slope to the Mississippi River via an unnamed drainage ditch. Erosional channels on the west, south, and east faces were noted as less than 6" deep in the deepest locations and will be monitored during subsequent inspection events and recommendations made to repair these features, if necessary. No significant degradation or issues were noted associated with the overall closed CCR impoundment cover system.

QUARTERLY MONITORING WELL INSPECTION AND GAUGING

During the third quarter of 2025, monitoring well inspections were conducted. The monitoring well protectors and casings were inspected for damage and/or signs of settling that might impact the integrity of the surface seals and/or the well casings. The inspection tasks also included gauging total depths as well as static groundwater elevations in all site wells. Both measurements were referenced from the top of casing (TOC) at each of the Site monitoring wells. Total depth and groundwater level measurements were obtained from the monitoring wells using a water level meter with an accuracy of 0.01 foot. The quarterly monitoring well inspection forms can be found in Appendix B. Based upon these measurements, a shallow groundwater contour map for the Site was developed for the third quarter of 2025. The groundwater gradient is primarily from east to west towards the Mississippi River except during times of flooding events that may cause a reverse flow from west to east for a short period of time (Natural Resource Technology, Phase 1 Hydrogeologic Assessment Report, March 2013). Figure 2 shows monitoring well locations with a groundwater contour and groundwater gradient direction arrow(s), groundwater elevations at each monitoring well, and the Mississippi River elevation at the time of groundwater level gauging.

QUARTERLY GROUNDWATER MONITORING

The Groundwater Protection Standards (GWPS) for the Site are those provided in 35 IAC §845.600(a). Assessment of corrective measures began on 16 June 2022 with the commencement of the initial post-closure groundwater sampling event. During the third quarter 2025 sampling event, 12 monitoring wells (APW-01R, APW-02, APW-03, APW-04, APW-05R, APW-06D, APW-06S, APW-07, APW-08, APW-09, APW-10D, and APW-10S) were sampled.

The monitoring wells were purged prior to sampling using a submersible pump according to United States Environmental Protection Administration (USEPA) low flow purging and sampling procedures (“Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells” revised September 19, 2017). The pump intake was placed within the screened interval of each monitoring well sampled and stabilization measurements were collected using a calibrated YSI ProDSS meter during purging activities for the collection of pH, specific conductivity, temperature, dissolved oxygen, and oxidation reduction potential (ORP) readings. Turbidity readings were also collected from each monitoring well using a Hach 2100Q Turbidimeter. Well purging continued until stabilization of each field parameter was achieved according to USEPA guidelines for low-flow sampling. Once the field parameters stabilized, the YSI meter was disconnected, and groundwater samples were collected for analysis using the same dedicated polyethylene tubing that was used to purge the well. Field parameter measurements collected during this sampling event were recorded on field data forms. Copies of the field data forms are included in Appendix C.

The groundwater samples collected were placed in laboratory-provided sample containers for analysis by Pace Analytical located in Mt. Juliet, TN, which is an IEPA-approved laboratory. Samples were transported via FedEx under chain-of-custody procedures to the laboratory for analytical testing within laboratory provided coolers containing ice. The laboratory analytical reports for the third quarter 2025 sampling event are included in Appendices D & E.

In accordance with the 3 March 2022 draft comments received from the IEPA Groundwater Section associated with the post-closure groundwater monitoring program contained in the Operating Permit Application submitted to the IEPA on 28 October 2021, the IEPA evaluates the efficacy of corrective actions for closed CCR impoundments through the comparison of the groundwater analytical results to the GWPS contained in 35 IAC §845.600. Under 35 IAC §845.600, the following groundwater parameters are to be monitored:

- Antimony
- Arsenic
- Barium
- Beryllium
- Chloride
- Chromium
- Cobalt
- Fluoride
- Mercury
- Molybdenum
- pH
- Selenium
- TDS
- Radium 226/228
- Calcium
- Turbidity

- Boron
- Cadmium
- Lead
- Lithium
- Sulfate
- Thallium

GROUNDWATER ANALYTICAL RESULTS

The analytical results for the post-closure groundwater sampling event conducted during the third quarter 2025 are presented in Table 1. During the third quarter 2025 sampling event, the following analytes and/or field parameters were detected in the listed wells above the GWPS:

- Arsenic: APW-6D, APW-10S,
- Boron: APW-02, APW-03, APW-05, APW-05R, APW-06D, APW-06S,
- Calcium: APW-02, APW-03, APW-05, APW-06D, APW-07, APW-10D, APW-10S
- Lead:
- Lithium: APW-02, APW-05,
- Molybdenum: APW-02, APW-05, APW-05R, APW-06S,
- Sulfate: APW-02
- Turbidity: APW-01R, APW-02, APW-04, APW-06S

APW-10S, located approximately one-half mile south of the closed CCR impoundment, continues to exhibit elevated arsenic concentrations. However, the occurrence of arsenic in this well is not considered to be related to the closed CCR impoundment due to its distance and location hydraulically side gradient in relation to the Site. Additionally, the monitoring wells located between the closed CCR impoundment (APW-03, APW-07, APW-08, APW-09, and APW-10D) and APW-10S, do not exhibit arsenic concentration above the GWPS.

The GTEC closed CCR impoundment is currently in Corrective Action Monitoring (CAM). As reported in the *2024 Annual Groundwater Monitoring Report - Grand Tower Energy Center* submitted by ERM and dated January 2025, statistical analysis conducted on the data collected from the first eleven quarters of post-closure monitoring (2nd quarter 2022 through 4th quarter 2024) indicates that arsenic, boron, lithium, molybdenum, and sulfate exceed the calculated background concentrations and the IEPA GWPS established in 35 IAC Section 845.600 in monitoring wells at the Site. Statistical analysis of the groundwater sampling results will continue to be completed on an annual basis to evaluate if statistically significant increases or decreases have occurred after cap and closure occurred in 2020 in accordance with 35 IAC Section §845.640(f). In accordance with 35 IAC Section §845.550(a) an Annual Groundwater Monitoring and Corrective Action Report will be submitted for 2025 by or before 31 January 2026.

At the end of the current five-year monitoring and reporting post-closure time frame, a groundwater performance monitoring report will be submitted to IEPA to either demonstrate restoration of groundwater quality to Class I standards or present a continued groundwater monitoring plan for an additional five years. In addition, the results will be compared to the modeled concentrations to evaluate if a decreasing trend, as defined through modeling, is occurring at the predicted rate. Significant changes from the model results will lead to additional calibration and assessment of future expected rates of decrease for the constituents of concern (COCs).

SUMMARY AND CONCLUSIONS

Based upon the results of the third quarter 2025 groundwater sampling event, well inspection, and closed CCR impoundment inspection, the following observations and conclusions have been made:

- Similar to the groundwater sampling results obtained during the eight pre-closure sampling events in 2017 to 2018, and 13 post-closure groundwater sampling events, concentrations of COCs above the GWPS continue to be detected at well locations downgradient of the closed CCR impoundment.
- Boron has historically been the key indicator for corrective action and continued monitoring of groundwater at the Site. Incorporating data from the eight rounds of pre-closure groundwater sampling conducted during 2017 and 2018, as well as the 13 post groundwater monitoring events, boron concentrations have shown a decreasing trend in Site monitoring wells.
- During the Q3 2025 event, woody vegetation was observed in the riprap, less than 1" thick in diameter. Continued monitoring of woody growth, and treatment recommendation will take place during subsequent quarterly sampling events.

If you have any questions, please contact me at (314) 447-7237.

Sincerely,



Randy Homburg
Managing Consultant



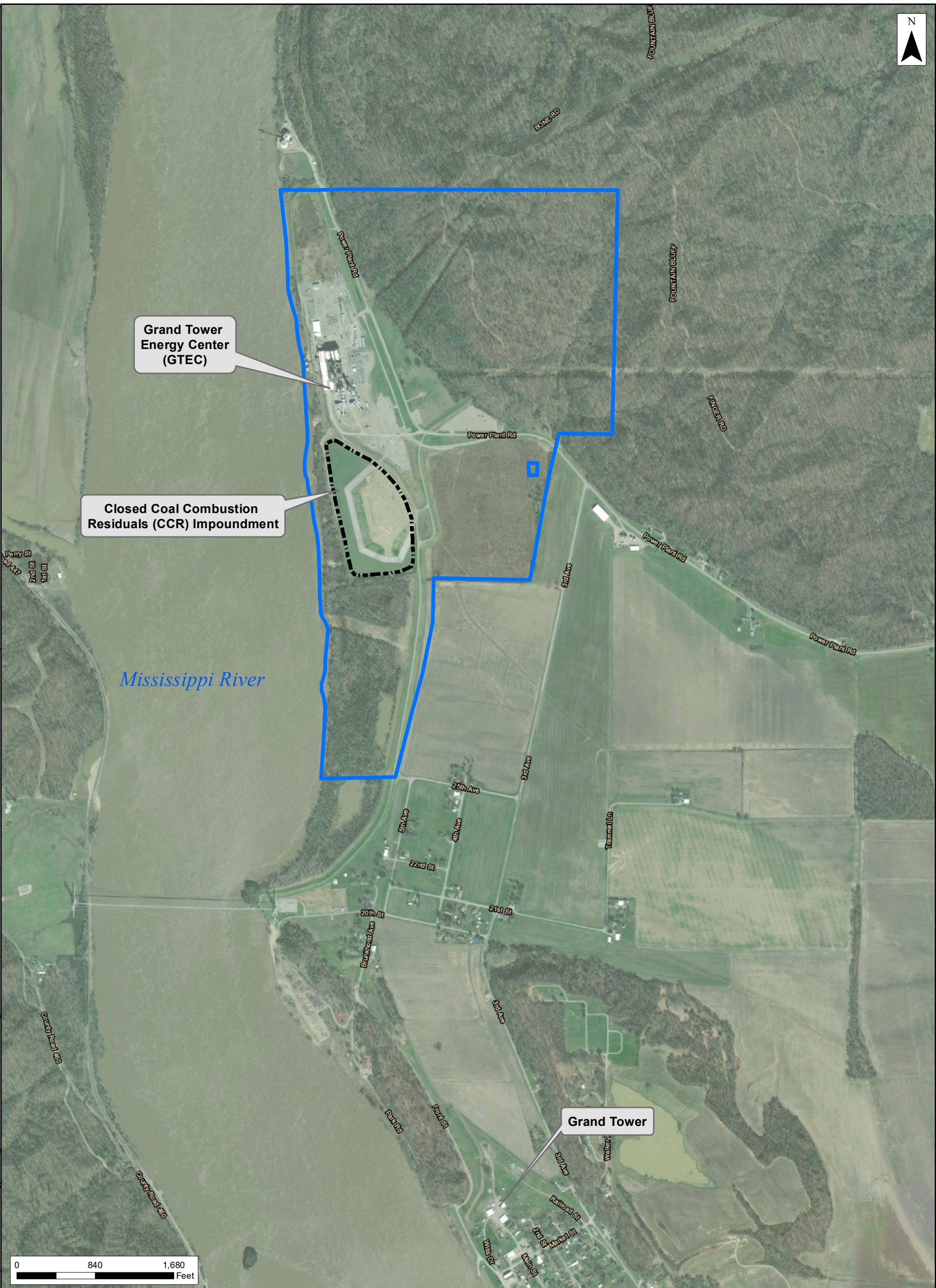
Wayne T. Sicora, P.E.
Principal Engineer

Attachments

cc: Mr. Bob Henderson, Perdomo - Grand Tower Energy Center (electronic)

FIGURES

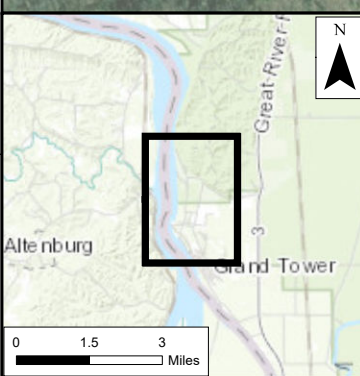
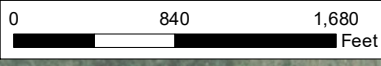
FILE: \\usbd\dfs02\data\Philadelphia\Team\DM\GIS\Projects\Grand Tower Energy Center\ MXD\FIGURE1-SITELOCATIONMAP_20221003.mxd | REVISED: 10/03/2022 | SCALE: 1:12,000 when printed at 11x17



Grand Tower Energy Center (GTEC)

Closed Coal Combustion Residuals (CCR) Impoundment

Grand Tower



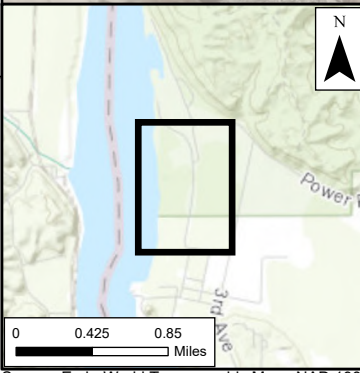
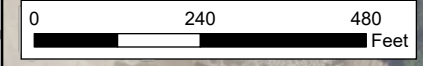
- Legend**
- Closed Coal Combustion Residuals (CCR) Impoundment
 - Approximate Parcel Boundary

Notes:
 1. CCR Surface Impoundment Closed Prior to July 31, 2021
 2. World Imagery (3/24/2021)

Figure 1
Site Location Map
 Grand Tower Energy Center, LLC
 Grand Tower, Illinois
 Jackson County



*Mississippi River Elevation = 345.80 Ft



- Legend**
- Monitoring Well Location
 - Groundwater Contour (0.5 Ft. Interval) - Dashed where inferred
 - Groundwater Flow Direction
 - 328.84 Groundwater Elevation

- Notes:**
1. CCR Surface Impoundment Closed Prior to July 31, 2021
 2. Date of gauging - June 24, 2025
 3. Ft AMSL - Feet Above Mean Sea Level
 4. (D) - Designated Wells not used in contouring
 5. * River stage at Mississippi River Gauge at Grand Tower, IL (NGVD29) (<https://rivergages.mvr.usace.army.mil/WaterControl/shefdata2.cfm?sid=CE358576&d=31&dt=E>)
 6. BING Imagery, 2022

Figure 2: Third Quarter 2025 Groundwater Contour Map
 Grand Tower Energy Center, LLC
 Grand Tower, Illinois
 Jackson County



TABLES

Table 1
Groundwater Summary Table
Grand Tower Energy Center (GTEC)
Grand Tower, US-IL

Parameter/Analyte	Total of Dissolved Units	Sample ID Location ID Sample Date Sample Type	Sampled prior to closure of CCR Impoundment												Post-Closure Sampling				
			APW-5-20170907	APW-5-20170928	APW-5-20171019	APW-5-20171109	APW-5-20171129	APW-5-20171227	APW-5-20180118	APW-5-20180207	APW-5-WG-20220616	DUP-001-WG-20220616	APW-5-WG-20220914	DUP-001-WG-20220914	APW-5-WG-20221128	DUP-01-WG-20221128	APW-5-WG-20230201	DUP-01-WG-20230201	
			APW-05 09/06/2017 N	APW-05 09/28/2017 N	APW-05 10/19/2017 N	APW-05 11/09/2017 N	APW-05 11/29/2017 N	APW-05 12/27/2017 N	APW-05 01/18/2018 N	APW-05 02/07/2018 N	APW-05 06/16/2022 N	APW-05 06/16/2022 FD	APW-05 09/14/2022 N	APW-05 09/14/2022 FD	APW-05 11/28/2022 N	APW-05 11/28/2022 FD	APW-05 02/01/2023 N	APW-05 02/01/2023 FD	
UNSPECIFIED																			
Fluoride	N	ma/L	4	0.34	0.34	0.32	0.32	0.32	0.33	0.36	0.32	0.35	0.33	0.33	0.31	0.37	0.38	0.33	0.33
Barium-226	N	pc/L	NS	0.17 ± 0.14 U	0.19 ± 0.1 U	0.131 ± 0.370	0.48 ± 0.15 U		0.42 ± 0.12 U	0.13 ± 0.1 U	0.26 ± 0.13 U	0.649 ± 0.316	0.259 ± 0.27 J	0.17 ± 0.08 U	0.11 ± 0.07 U	0.42 ± 0.09 U	1.74 ± 0.21	0.209 ± 0.245 J	0.205 ± 0.241 J
Barium-228	N	pc/L	NS	1.07 ± 0.8	0.89 ± 0.55 U	0.661 ± 0.438	1.17 ± 0.33		0.42 ± 0.12 U	1.04 ± 0.56	0.35 ± 0.4 U	1.1 ± 0.287	0.715 ± 0.31	0.82 ± 0.88 U	0.77 ± 0.55 U	1.74 ± 0.21	0.399 ± 0.425 J	0.249 ± 0.298 J	
Sulfate	N	mg/L	400	407	460	399	413	381	394	439	378	224	239	379	403	324	338	325	305
CALC																			
Barium-226/228	N	pc/L	7.002	1.44 ± 0.94 U	1.08 ± 0.65 U	0.794 ± 0.78	1.65 ± 0.48 U		0.84 ± 0.54 U	1.17 ± 0.66 U	0.61 ± 0.53 U	1.75 ± 0.424	0.973 ± 0.411	0.99 ± 0.96 U	0.38 ± 0.62 U	0.6 ± 0.6 U	1.41 ± 0.79 U	0.608 ± 0.488 J	0.454 ± 0.332 J
FIELD PARAM																			
Turbidity-Field	N	NTU	17.96									51.8		9.19		4.65		8.21	
GEN CHEM																			
Chloride	N	ma/L	200	15	15	15	14	16	16	16	16	19	19	15	19	19	18	18	18
Dissolved Solids-Total	N	ma/L	1200	842	832	804	826	790	792	552	804	650	750.H	774.H	714	690	696	670	670
Test Lab	N	Test Units	1.31	1.3	1.36	1.3	1.3	1.26	1.31	1.23	1.3	1.18	1.25	1.25	1.27	1.24	1.27	1.31	1.33
METALS																			
Antimony	D	ma/L	0.006	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	0.001 U	0.001 U
Arsenic	D	ma/L	0.01	0.0021	0.0021	0.0016	0.0016	0.0016	0.0019	0.0021	0.0019	0.0048	0.0041	0.0025	0.0023	0.0019	0.0019	0.0024	0.0018
Arsenic	T	ma/L	0.01	0.0021	0.0026	0.0015	0.0016	0.0016	0.0019	0.0021	0.0019	0.0048	0.0041	0.0025	0.0023	0.0019	0.0019	0.0024	0.0018
Barium	D	ma/L	NS	0.17 ± 0.14 U	0.19 ± 0.1 U	0.131 ± 0.370	0.48 ± 0.15 U		0.42 ± 0.12 U	0.13 ± 0.1 U	0.26 ± 0.13 U	0.649 ± 0.316	0.259 ± 0.27 J	0.17 ± 0.08 U	0.11 ± 0.07 U	0.42 ± 0.09 U	1.74 ± 0.21	0.209 ± 0.245 J	0.205 ± 0.241 J
Barium	T	ma/L	2	0.226	0.233	0.183	0.216	0.193	0.214	0.214	0.195	0.187	0.133	0.132	0.13	0.128	0.138	0.135	0.135
Beryllium	D	ma/L	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	0.001 U	0.001 U
Beryllium	T	ma/L	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	0.001 U	0.001 U
Boron	D	ma/L	2	9.3	8.89	9.98	9.1	9.83	9.25	8.73	8.73	8.24.S	7.76	7.62	7.97	7.48	7.35	7.59	7.59
Boron	T	ma/L	2	9.3	8.89	9.98	9.1	9.83	9.25	8.73	8.73	8.24.S	7.76	7.62	7.97	7.48	7.35	7.59	7.59
Calcium	D	ma/L	0.005	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	0.001 U	0.001 U
Calcium	T	ma/L	0.005	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	0.001 U	0.001 U
Calcium	D	ma/L	103.2	136	142	119	131	123	125	121	124	127	129.S	127	114	114	114	114	114
Calcium	T	ma/L	103.2	136	142	119	131	123	125	121	124	127	129.S	127	114	114	114	114	114
Chromium	D	ma/L	0.1	0.0137	0.001 U	0.0041	0.001 U	0.001 U	0.0084	0.0033	0.001 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Chromium	T	ma/L	0.1	0.0137	0.001 U	0.0041	0.001 U	0.001 U	0.0084	0.0033	0.001 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U
Cobalt	D	ma/L	0.006	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 J	0.0005 J	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Cobalt	T	ma/L	0.006	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
Iron	D	ma/L	NS	0.0075	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	0.001 U
Iron	T	ma/L	NS	0.0075	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	0.001 U
Lead	D	ma/L	0.01	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	0.001 U	0.001 U
Lead	T	ma/L	0.01	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	0.001 U	0.001 U
Lithium	D	ma/L	0.01	0.0363	0.0443	0.0393	0.0405	0.0415	0.0433	0.0404	0.0397	0.0331	0.0363	0.0408	0.0397	0.0373	0.0371	0.0399	0.0402
Lithium	T	ma/L	0.01	0.0363	0.0443	0.0393	0.0405	0.0415	0.0433	0.0404	0.0397	0.0331	0.0363	0.0408	0.0397	0.0373	0.0371	0.0399	0.0402
Manganese	D	ma/L	NS	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	0.0002 U
Manganese	T	ma/L	NS	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	0.0002 U
Molybdenum	D	ma/L	0.1	0.172	0.195	0.201	0.168	0.193	0.246	0.244	0.249	0.172	0.17	0.213	0.206	0.223	0.226	0.217	0.199
Molybdenum	T	ma/L	0.1	0.172	0.195	0.201	0.168	0.193	0.246	0.244	0.249	0.172	0.17	0.213	0.206	0.223	0.226	0.217	0.199
Nickel	D	ma/L	NS	0.0074	0.0012	0.0023	0.001 U	0.001 U	0.0043	0.0021	0.001 U	0.0036	0.0035	0.0022	0.0011	0.0024	0.0029	0.0024	0.0024
Nickel	T	ma/L	NS	0.0074	0.0012	0.0023	0.001 U	0.001 U	0.0043	0.0021	0.001 U	0.0036	0.0035	0.0022	0.0011	0.0024	0.0029	0.0024	0.0024
Selenium	D	ma/L	0.05	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	0.001 U	0.001 U
Selenium	T	ma/L	0.05	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	0.001 U	0.001 U
Thallium	D	ma/L	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	0.001 U	0.001 U
Thallium	T	ma/L	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	0.001 U	0.001 U

Notes:
 Empty cells = not analyzed
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 NA = not applicable
 T = total
 D = dissolved
 ma/L = milligrams per liter
 pc/L = picocuries per liter
 NTU = nephelometric turbidity units
 H = Holding times exceeded
 J = Analyte detected below quantitation limits
 F1 = Sample filtration was performed in the laboratory
 J3 = The associated batch QC was outside the established quality control range for precision
 J6 = The sample matrix interfered with the ability to make any accurate determination: spike value is low
 S = Spike Recovery outside recovery limits
 R = RPD outside accepted recovery limits
 U = Not Detected at the Reporting Limit
 T8 = Sample received past/too close to holding time expiration
 1 Standard is from the Upper Tolerance Limit (UTL)
 2 Standard value 6.22 is from the Lower Tolerance Limit
 3 Eight episodes of groundwater sampling were conducted
 Highlighted values exceed action level
 NS = No standard

APPENDIX A FOURTH QUARTER 2024 CCR
IMPOUNDMENT INSPECTION REPORT



Grand Tower Energy Center Closed CCR Impoundment Quarterly Inspection Form

Date: 9/4/2025
Time: 13:30-14:45
Name: Marshall Arendell
(Inspector)

Weather:

Temperature:

80 deg. F

- Sunny
- Cloudy
- Raining
- Other

Observations:

- Erosion / Gullies
- Cracking / Sloughing
- Ponding / Damp Areas
- No Problems Identified
- Woody Vegetation Growth
- Other

Conditions Limiting Visibility:

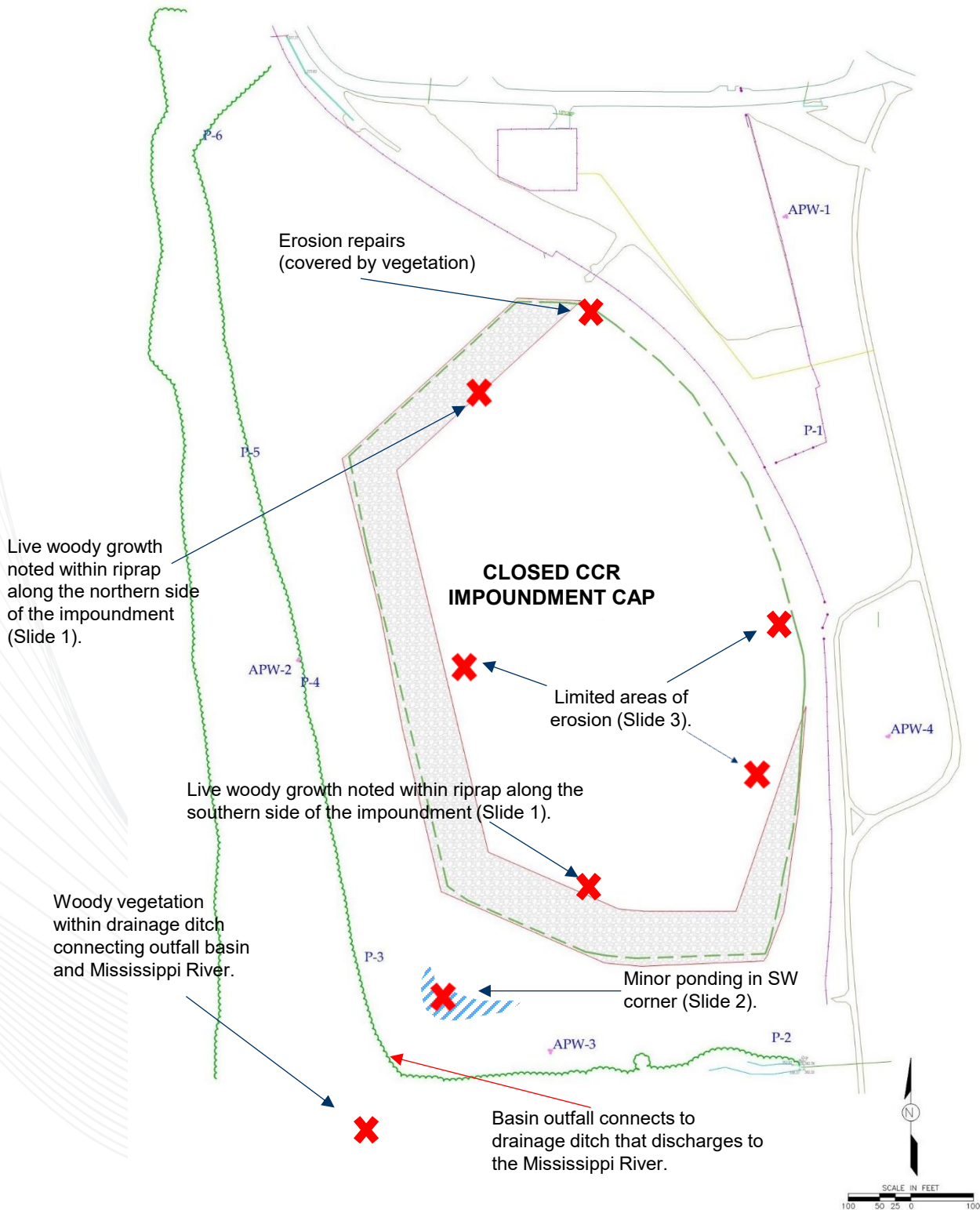
- Snow Cover
- Vegetation
- None
- Other

Observations in Detail Below:

- ERM onsite for the September inspection of the CCR impoundment and 3Q25 groundwater sampling event.
- Repairs made to the erosional channel on the NE face of the impoundment cap in 2024 held. ERM will continue to monitor.
- Continued monitoring of additional erosional channels across the west, east, and southern faces of the closed CCR impoundment cap. No additional controls necessary currently. ERM will continue to monitor.
- Ponding continues to be noted in the SW corner of the basin near the outfall. No adverse effects to the impoundment cap are associated with the ponding. ERM will continue to monitor.
- Woody vegetation noted on the north and south face of the closed CCR impoundment cap. Vegetation produced foliage and was alive during the Q3 inspection. ERM recommends herbicide treatment in the summer of 2025.
- Woody vegetation noted in the outfall channel to the drainage ditch connected to the Mississippi River. Vegetation does not present an immediate issue to surface water flowing from the basin to the drainage ditch to the river. ERM will continue to monitor and recommend removal if necessary.

Attach additional pages if necessary.

Observation Locations Map



Grand Tower Energy Center Q3 2025 Closed CCR Impoundment Cap Inspection

Woody vegetation observed in the N and S side riprap



View facing N from the south of the impoundment cap



View facing
west from the
NE corner of
the
impoundment
cap

Ponding in the SW Corner of Site Basin Near the Outfall



Ponded area in SW corner of site as viewed from APW-6D/S



Ponded area in SW corner of site as viewed from APW-6D/S

Note: Mississippi River backwater enters the GTEC CCR Impoundment Basin when the river level gage operated by the U.S. Army Corps of Engineers at Grand Tower, IL reaches a stage of approximately 27 ft.

Minor Erosional Channels



Erosion on the W side of impoundment cap. Photo taken facing east towards the impoundment cap. Approx. 4-6" deep.

Erosion on the E side of impoundment cap. Photo taken facing west towards the impoundment cap. Approx. 4-6" deep.



Erosion on the E side of impoundment cap. Photo taken facing west towards the impoundment cap. Approx. 6-8" deep.

APPENDIX B FOURTH QUARTER 2024
GROUDNWATER MONITORING WELL
INSPECTION FORMS

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-01R Date: 9/3/2025
Total Depth (Actual): 58.30 (BTOC) Time: 1120
Total Depth (Measured): 58.20 (BTOC) Collection Order: 5
Depth to Water (Measured): 27.80 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-02 Date: 9/3/2025
Total Depth (Actual): 58.75 (BTOC) Time: 1050
Total Depth (Measured): 58.05 (BTOC) Collection Order: 3
Depth to Water (Measured): 25.61 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:
Water in casing almost to well level

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-03 Date: 9/3/2025
Total Depth (Actual): 59.65 (BTOC) Time: 1220
Total Depth (Measured): 60.25 (BTOC) Collection Order: 12
Depth to Water (Measured): 27.61 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: No
Water present in protector: Yes
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:
No tubing present well. Replaced with new dedicated tubing during sampling.

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-04 Date: 9/3/2025
Total Depth (Actual): 60.40 (BTOC) Time: 1140
Total Depth (Measured): 60.61 (BTOC) Collection Order: 7
Depth to Water (Measured): 27.40 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type: _____
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-05R Date: 9/3/2025
Total Depth (Actual): 56.90 (BTOC) Time: 1100
Total Depth (Measured): 62.83 (BTOC) Collection Order: 4
Depth to Water (Measured): 26.74 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-06S Date: 9/3/2025
Total Depth (Actual): 63.98 (BTOC) Time: 1037
Total Depth (Measured): 63.81 (BTOC) Collection Order: 2
Depth to Water (Measured): 25.45 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: No
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:
No tubing present well. Replaced with new dedicated tubing during sampling.

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-06D Date: 9/3/2025
Total Depth (Actual): 152.57 (BTOC) Time: 1030
Total Depth (Measured): 154.08 (BTOC) Collection Order: 1
Depth to Water (Measured): 25.55 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: No
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:
No tubing present well. Replaced with new dedicated tubing during sampling.

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-07 Date: 9/3/2025
Total Depth (Actual): 63.35 (BTOC) Time: 1205
Total Depth (Measured): 64.30 (BTOC) Collection Order: 10
Depth to Water (Measured): 24.35 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:
Ants in well protector and tubing.

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-08 Date: 9/3/2025
Total Depth (Actual): 61.89 (BTOC) Time: 1210
Total Depth (Measured): 62.85 (BTOC) Collection Order: 11
Depth to Water (Measured): 24.48 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-09 Date: 9/3/2025
Total Depth (Actual): 63.40 (BTOC) Time: 1130
Total Depth (Measured): 64.10 (BTOC) Collection Order: 6
Depth to Water (Measured): 27.79 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-10S Date: 9/3/2025
Total Depth (Actual): 62.84 (BTOC) Time: 1153
Total Depth (Measured): 62.76 (BTOC) Collection Order: 8
Depth to Water (Measured): 20.95 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-10D Date: 9/3/2025
Total Depth (Actual): 98.19 (BTOC) Time: 1156
Total Depth (Measured): 98.10 (BTOC) Collection Order: 9
Depth to Water (Measured): 20.80 (BTOC)

Is well screen occluded more than 10%? No
If Yes, list steps for redevelopment: _____

LNAPL Present: No
If Yes, measured thickness = N/A
DNAPL Present: No
If Yes, measured thickness = N/A

Well Completion Type:
Condition of protector: INTACT Yes
Well ID present and readable: Yes
Locks intact: Yes
Weep hole present: Yes
Water present in protector: No
Are well "markers" (i.e.bumper posts) needed at this location: No
If yes, are current well "markers" adequate around well: N/A
Comments: _____

Well Surface Seal: INTACT
Is surrounding area sloped away from well: Yes
Any observed ponding: No
Is surface run-off flow evident around well: No

Well Casing Condition: INTACT
Size of well (diameter) = 2 inches
Marking point present: Yes
Well cap in place: Yes
Comments: _____

General Comments:
Ants in well protector and on tubing.

APPENDIX C FOURTH QUARTER 2024 FIELD DATA
FORMS



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-01R
Well Permit No:

Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 53.2 (ft)	Reference Elevation 366.82 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 27.61 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 58.2 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 350 (mL/min)	Well Diameter / Well Screen Interval (in) / 48.3 - 58.3 ()
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 2.5 (gal)	Well Construction

Well Head Vapor Measurements
PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
14:30	27.61	350	0	17.1	6.11	274.6	NM	5.3	498.8	328	NM	
14:35	27.61	350	0.25	17	6.05	286.6	NM	3.69	568.2	245	NM	
14:40	27.61	350	0.5	17	5.93	299.7	NM	3.2	606.6	172	NM	
14:45	27.61	350	0.75	17.1	6.24	320.7	NM	2.73	636.8	106	NM	
14:50	27.61	350	1	17	6.12	336.1	NM	2.43	653.3	65	NM	
14:55	27.61	350	1.25	17.1	6.19	345.1	NM	2.28	662.8	44	NM	
15:00	27.61	350	1.5	17	6.19	351	NM	2.24	672.4	37.1	NM	
15:05	27.61	350	1.75	17	6.21	355.2	NM	2.16	685.1	30.6	NM	
15:10	27.61	350	2	16.8	6.2	360.6	NM	2.03	697	30.8	NM	
15:15	27.61	350	2.25	16.9	6.28	363.7	NM	2.06	704.1	31.5	NM	
15:20	27.61	350	2.5	16.9	6.24	364.5	NM	2.08	706.8	30.5	NM	

Sample ID(s): APW-01R-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
Analysis:		Marshall Arendell 	09/09/2025 15:26



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-02
Well Permit No:

Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 53.05 (ft)	Reference Elevation 364.61 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 25.52 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 58.05 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 200 (mL/min)	Well Diameter / Well Screen Interval (in) / 47.2 - 57.2 ()
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 0.6 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
12:55	25.52	200	0	18.8	7.02	910	NM	3	500	183	NM	
13:00	27.93	200	0.1	18.7	7.04	912	NM	1.14	474	72.1	NM	
13:05	30.01	200	0.2	18.6	7.03	919	NM	0.45	410	82.4	NM	
13:10	32.11	200	0.3	18.5	7.02	921	NM	0.44	406	79.6	NM	
13:15	33.9	200	0.4	21.3	7.02	930	NM	0.43	327	73	NM	
13:20	35.56	200	0.5	21.4	7.02	942	NM	0.42	322	76.2	NM	
13:25	37.48	200	0.6	21.5	7.02	945	NM	0.41	319	78.6	NM	

Sample ID(s): APW-02-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE Marshall Arendell	Date Time 09/09/2025 15:48
Analysis:			



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-03
Well Permit No:

Date: 2025/09/03

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 55.25 (ft)	Reference Elevation 365.79 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 27.8 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 60.25 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 400 (mL/min)	Well Diameter / Well Screen Interval (in) / 45.7 - 55.7 ()
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 0.75 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
13:15	27.8	400	0	17.4	7.61	506	NM	6.24	324	28.9	NM	
13:20	27.8	400	0.25	18.7	7.68	579	NM	4.8	319	18.8	NM	
13:25	27.8	400	0.5	19	7.76	575	NM	4.52	468	9.13	NM	
13:30	27.8	400	0.75	19	7.79	567	NM	2.9	500.7	8.17	NM	
13:35	27.8	400	1	18.8	7.82	562	NM	1.93	476.8	8.1	NM	
13:40	27.8	400	1.25	18.7	7.81	559	NM	1.66	442	7.27	NM	
13:45	27.8	400	1.5	18.3	7.81	554	NM	1.34	433	5.5	NM	Paused sampling after reading to troubleshoot equipment issues. Swapped monsoon pump.
14:15	27.8	400	1.75	18.6	7.81	600	NM	2.67	405	8.12	NM	
14:20	27.8	400	2	18.5	7.81	602	NM	2.65	409	7.63	NM	
14:25	27.8	400	2.25	18.4	7.81	605	NM	2.64	411	7.01	NM	

Sample ID(s): APW-03-WG-20250903	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
Analysis:		Marshall Arendell 	09/09/2025 16:06



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-04
Well Permit No:


Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 55.61 (ft)	Reference Elevation 367.44 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 27.22 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 60.61 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 300 (mL/min)	Well Diameter / Well Screen Interval (in) / 45.7 - 55.7 ()
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 1.5 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
07:35	27.22	300	0	15.3	6.98	467	NM	6.05	532	21.3	NM	
07:40	27.22	300	0.25	15.4	6.92	468	NM	4.13	546	25.8	NM	
07:45	27.22	300	0.5	15.6	7	486	NM	3.02	551	12.8	NM	
07:50	27.22	300	0.75	15.6	7.04	496	NM	2.02	550	15.8	NM	
07:55	27.22	300	1	15.6	7.06	500	NM	1.37	548	22.3	NM	
08:00	27.22	300	1.25	15.6	7.07	502	NM	1.33	546	21.2	NM	
08:05	27.22	300	1.5	15.7	7.07	504	NM	1.29	547	21.7	NM	

Sample ID(s): APW-04-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE Marshall Arendell 	Date Time 09/09/2025 17:51
Analysis:			



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-05R
Well Permit No:

Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 57.83 (ft)	Reference Elevation ()
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 26.6 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 62.83 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 450 (mL/min)	Well Diameter / Well Screen Interval (in) / - ()
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 5 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
11:35	26.6	450	0	16.4	5.72	595	NM	6.15	436	543	NM	
11:40	26.6	450	0.5	16.2	7.36	592	NM	3.14	412	350	NM	
11:45	26.6	450	1	16.5	7.39	595	NM	1.02	315	125	NM	
11:50	26.6	450	1.5	16.4	7.36	596	NM	0.62	230	77.1	NM	
11:55	26.6	450	2	16.3	7.36	595	NM	0.52	185	59.8	NM	
12:00	26.6	450	2.5	16.4	7.33	594	NM	0.44	140	43.1	NM	
12:05	26.6	450	3	16.5	7.33	593	NM	0.4	91.6	27.7	NM	
12:10	26.6	450	3.5	16.6	7.32	601	NM	0.36	50.6	24.3	NM	
12:15	26.6	450	4	16.4	7.32	597	NM	0.37	-1.2	17.5	NM	
12:20	26.6	450	4.5	16.5	7.31	597	NM	0.34	-7.3	16.9	NM	
12:25	26.6	450	5	16.6	7.32	595	NM	0.34	-10.9	16.3	NM	

Sample ID(s): APW-05R-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
Analysis:		Marshall Arendell	09/09/2025 18:47



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-06D
Well Permit No:

Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 149.08 (ft)	Reference Elevation 363.69 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 25.21 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 154.08 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 400 (mL/min)	Well Diameter / Well Screen Interval (in) / 140 - 150 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 2.5 (gal)	Well Construction

Well Head Vapor Measurements
PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
09:00	25.22	400	0	16.5	7.09	595	NM	5.84	451	5.72	NM	
09:05	25.22	400	0.25	16.4	7.14	593	NM	2.69	283	6.52	NM	
09:10	25.22	400	0.5	16.4	7.15	594	NM	2.04	173	5.54	NM	
09:15	25.22	400	0.75	16.5	7.15	595	NM	1.75	123	4.74	NM	
09:20	25.22	400	1	16.8	7.15	599	NM	1.48	64.7	8.27	NM	
09:25	25.22	400	1.25	17.1	7.21	602	NM	1.47	36	5.21	NM	
09:30	25.22	400	1.5	17.4	7.21	604	NM	1.5	15.1	3.62	NM	
09:35	25.22	400	1.75	17.8	7.21	651	NM	1.46	-8.8	4.96	NM	
09:40	25.22	400	2	18	7.21	651	NM	1.36	-14.4	4.35	NM	
09:45	25.22	400	2.25	18.1	7.22	652	NM	1.38	-19.2	4.92	NM	
09:50	25.22	400	2.5	18.2	7.22	653	NM	1.37	-21.7	3.78	NM	

Sample ID(s): APW-06D-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
Analysis:		Marshall Arendell 	09/09/2025 20:08



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-06S
Well Permit No:

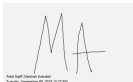
Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 58.81 (ft)	Reference Elevation 363.51 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 25.77 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 63.81 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 400 (mL/min)	Well Diameter / Well Screen Interval (in) / 50 - 60 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 2 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
10:10	25.77	400	0	16.5	7	577	NM	7.99	323	264	NM	
10:15	25.77	400	0.25	17.8	7.05	591	NM	1.64	137	254	NM	
10:20	25.77	400	0.5	18.3	7.06	595	NM	1.35	92	217	NM	
10:25	25.77	400	0.75	18.7	7.07	636	NM	1.15	36	162	NM	
10:30	25.77	400	1	19	7.08	639	NM	1.02	-27	126	NM	
10:35	25.77	400	1.25	19.3	7.09	641	NM	0.94	-54	47	NM	
10:40	25.77	400	1.5	19.6	7.09	649	NM	0.49	-79.1	39.91	NM	
10:45	25.77	400	1.75	19.7	7.09	652	NM	0.48	-81.9	39.11	NM	
10:50	25.77	400	1.75	19.8	7.09	655	NM	0.46	-82.2	38.25	NM	

Sample ID(s): APW-06S-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
		Marshall Arendell 	09/09/2025 20:27
Analysis:			



Low Flow Groundwater Sampling Field Data Form

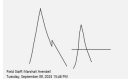
Well ID: APW-07
Well Permit No:

Date: 2025/09/04

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 59.3 (ft)	Reference Elevation 360.61 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 24.8 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 64.3 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 450 (mL/min)	Well Diameter / Well Screen Interval (in) / 50 - 60 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 4.5 (gal)	Well Construction

Well Head Vapor Measurements
PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
15:45	24.8	450	0	16	6.65	997	NM	2.74	583	45.1	NM	
15:50	24.8	450	0.5	16.2	6.63	998	NM	1.63	561	51	NM	
15:55	24.8	450	1	16.7	6.62	1000	NM	1.17	535	62.2	NM	
16:00	24.8	450	1.5	15.5	6.62	1002	NM	0.65	447	50.1	NM	
16:05	24.8	450	2	15.4	6.62	1004	NM	0.47	405	25.4	NM	
16:10	24.8	450	2.5	15.3	6.62	1009	NM	0.41	386	11.7	NM	
16:15	24.8	450	3	15.2	6.64	1024	NM	0.34	360	9.9	NM	
16:20	24.8	450	3.5	15.2	6.63	1031	NM	0.33	343	7.08	NM	
16:25	24.8	450	4	15.2	6.63	1033	NM	0.32	340	7.15	NM	
16:30	24.8	450	4.5	15.2	6.63	1035	NM	0.31	337	8.77	NM	

Sample ID(s): APW-07-WG-20250904	Additional Comments	SAMPLER NAME AND SIGNATURE Marshall Arendell 	Date Time 09/09/2025 20:46
Analysis:			



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-08
Well Permit No:

Date: 2025/09/05

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 57.85 (ft)	Reference Elevation 362.71 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 25.09 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 62.85 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 450 (mL/min)	Well Diameter / Well Screen Interval (in) / 50 - 60 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 5 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
07:40	25.09	450	0	15.2	6.98	550	NM	5.1	591	1000	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
07:45	25.09	450	0.5	15.5	6.89	548	NM	3.23	606	552	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
07:50	25.09	450	1	15.6	6.89	549	NM	2.15	619	208	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
07:55	25.09	450	1.5	15.6	6.89	551	NM	1.53	623	122	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:00	25.09	450	2	15.6	6.9	553	NM	1.07	634	82.2	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:05	25.09	450	2.5	15.6	6.9	554	NM	0.76	644	47.9	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:10	25.09	450	3	15.7	6.9	554	NM	0.49	650	32.3	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:15	25.09	450	3.5	15.6	6.9	554	NM	0.42	656	19.1	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:20	25.09	450	4	15.6	6.9	554	NM	0.34	662	12.7	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:25	25.09	450	4.5	15.6	6.9	555	NM	0.3	667	12.5	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.
08:30	25.09	450	5	15.6	6.9	556	NM	0.28	670	12	NM	turbidity was over 1000. Received "over-range" reading from HACH meter.

Sample ID(s): APW-08-WG-20250905	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
		Marshall Arendell 	09/09/2025 21:00
Analysis:			



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-09
Well Permit No:

Date: 2025/09/05

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 58.4 (ft)	Reference Elevation 366.84 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 27.88 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 63.4 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 475 (mL/min)	Well Diameter / Well Screen Interval (in) / 50 - 60 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 3 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
08:55	27.88	475	0	15.9	7.27	453	NM	5.56	665	389	NM	
09:00	27.88	475	0.5	15.5	7.24	483	NM	1.59	683	39.2	NM	
09:05	27.88	475	1	15.5	7.22	496	NM	0.78	693	7.5	NM	
09:10	27.88	475	1.5	15.6	7.2	496	NM	0.64	698	6.8	NM	
09:15	27.88	475	2	15.6	7.2	496	NM	0.47	707	4.14	NM	
09:20	27.88	475	2.5	15.6	7.19	495	NM	0.42	711	4.02	NM	
09:25	27.88	475	3	15.6	7.19	495	NM	0.41	715	4.92	NM	

Sample ID(s): APW-09-WG-20250905	Additional Comments	SAMPLER NAME AND SIGNATURE Marshall Arendell	Date Time 09/09/2025 21:11
Analysis:			



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-10D
Well Permit No:

Date: 2025/09/03

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 93.1 (ft)	Reference Elevation 359.41 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 20.8 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 98.1 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 450 (mL/min)	Well Diameter / Well Screen Interval (in) / 86 - 96 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 3 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
15:15	20.8	450	0	16.6	7.01	623	NM	16.02	383	17.6	NM	
15:20	20.8	450	0.5	15.9	6.98	525	NM	2.74	346	17	NM	
15:25	20.8	450	1	15.9	6.95	497	NM	1.23	265	16.1	NM	
15:30	20.8	450	1.5	15.9	6.93	496	NM	0.49	109	17.4	NM	
15:35	20.8	450	2	16	6.96	499	NM	0.48	78	16.6	NM	
15:40	20.8	450	2.5	16.1	6.95	501	NM	0.46	76	16.5	NM	
15:45	20.8	450	3	16.1	6.94	503	NM	0.44	79	16.6	NM	

Sample ID(s): APW-10D-WG-20250903	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
Analysis:		Marshall Arendell 	09/09/2025 21:30



Low Flow Groundwater Sampling Field Data Form

Well ID: APW-10S
Well Permit No:

Date: 2025/09/03

Site ID GTEC-GRAND-TOWER	Purge Method / Pump Intake Depth Low_Flow / 57.76 (ft)	Reference Elevation 359.47 (ft)
Site Address 1820 Power Plant Road, Grand Tower, US-IL	Purge Equipment NA	Depth to Water / Free Product 21 (ft) / None
Project Number 0761817	Sample Equipment NA	Total Well Depth 62.76 (ft)
Project Name 20250901-GWMonitor	Average Purge Rate 450 (mL/min)	Well Diameter / Well Screen Interval (in) / 50 - 60 (ft)
Sampler marshall arendell	Volume of Water in Well / Total Volume Purged (gal) / 3 (gal)	Well Construction

Well Head Vapor Measurements

PID: NA; FID: NA; CO: NA; CO2: NA; O2: NA; CH4: NA; H2S: NA

Time	DTW (ft)	Flow Rate (mL/min)	Purge Volume (gal)	Temperature (C) ±3%	pH ±0.1pH units	Specific Conductivity (uS/cm) ±3%	Total Conductivity (NA)	Dissolved Oxygen (mg/L) ±10%	ORP (mV) ±10 mV	Turbidity (NTU) ±10%	Total Dissolved Solids(NA)	Comments
16:10	21	450	0	16.2	6.85	987	NM	8.54	-5.7	760	NM	
16:15	21	450	0.5	16.2	6.68	997	NM	1.71	-73.6	203	NM	
16:20	21	450	1	16.1	6.87	1000	NM	0.99	-98.3	84.2	NM	
16:25	21	450	1.5	16	6.87	1010	NM	0.73	-108.8	29.8	NM	
16:30	21	450	2	16.1	6.86	1014	NM	0.49	-116.6	9.21	NM	
16:35	21	450	2.5	16.1	6.86	1025	NM	0.44	-119.1	7.26	NM	
16:40	21	450	3	16	6.85	1022	NM	0.41	-120.6	5.22	NM	

Sample ID(s): APW-10S-WG-20250903	Additional Comments	SAMPLER NAME AND SIGNATURE	Date Time
Analysis:		Marshall Arendell 	09/09/2025 22:13

APPENDIX D FOURTH QUARTER 2024 LABORATORY
ANALYTICAL REPORT

ERM - St. Louis, MO

Sample Delivery Group: L1895667
Samples Received: 09/06/2025
Project Number: 0599247
Description: Grand Tower Energy Center Groundwater 3Q25 Sampling
Report To: Randy Homburg
1968 Craig Road, Suite 100
Saint Louis, MO 63146

Entire Report Reviewed By:



Jeff Carr
Project Manager

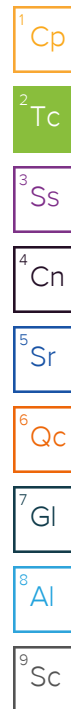
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory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

Pace Analytical National

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

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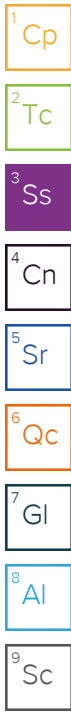


SAMPLE SUMMARY

APW-03-WG-20250903 L1895667-01

Collected by Marshall Arendell Collected date/time 09/03/25 14:30 Received date/time 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2595642	1	09/06/25 22:27	09/08/25 14:01	BDC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595823	5	09/09/25 05:50	09/09/25 05:50	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596032	1	09/12/25 16:12	09/13/25 18:24	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2596881	1	09/11/25 09:35	09/11/25 17:47	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:13	09/11/25 20:40	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 18:54	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/22/25 22:47	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:13	TMT	Mt. Juliet, TN



APW-08-WG-20250905 L1895667-02

Collected by Marshall Arendell Collected date/time 09/05/25 08:35 Received date/time 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596320	1	09/08/25 11:43	09/09/25 11:54	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595823	1	09/09/25 06:40	09/09/25 06:40	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596032	1	09/12/25 16:12	09/13/25 18:26	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2596881	1	09/11/25 09:35	09/11/25 17:49	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:13	09/11/25 20:42	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:01	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/22/25 23:00	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:16	TMT	Mt. Juliet, TN

APW-07-WG-20250904 L1895667-03

Collected by Marshall Arendell Collected date/time 09/04/25 16:35 Received date/time 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596320	1	09/08/25 11:43	09/09/25 11:54	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595823	1	09/09/25 07:06	09/09/25 07:06	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596032	1	09/12/25 16:12	09/13/25 18:29	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2596881	1	09/11/25 09:35	09/11/25 17:52	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:13	09/11/25 20:44	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:03	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/22/25 23:03	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:20	TMT	Mt. Juliet, TN

APW-10S-WG-20250903 L1895667-04

Collected by Marshall Arendell Collected date/time 09/03/25 16:45 Received date/time 09/06/25 09:00

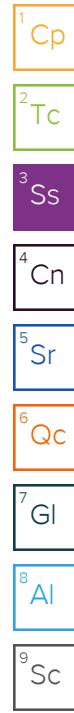
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2595642	1	09/06/25 22:27	09/08/25 14:01	BDC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595823	1	09/09/25 07:31	09/09/25 07:31	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596032	1	09/12/25 16:12	09/13/25 18:31	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2596881	1	09/11/25 09:35	09/11/25 17:54	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:13	09/11/25 20:45	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:05	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/22/25 23:06	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:23	TMT	Mt. Juliet, TN

SAMPLE SUMMARY

APW-10D-WG-20250903 L1895667-05

Collected by: Marshall Arendell
 Collected date/time: 09/03/25 15:55
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2595642	1	09/06/25 22:27	09/08/25 14:01	BDC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/08/25 23:37	09/08/25 23:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596032	1	09/12/25 16:12	09/13/25 18:33	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2596881	1	09/11/25 09:35	09/11/25 17:57	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:13	09/11/25 20:47	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:07	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/22/25 23:09	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:26	TMT	Mt. Juliet, TN



APW-06S-WG-20250904 L1895667-06

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 10:55
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596320	1	09/08/25 11:43	09/09/25 11:54	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 00:29	09/09/25 00:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	5	09/09/25 00:47	09/09/25 00:47	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:29	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 14:53	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 20:49	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:12	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:10	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:29	TMT	Mt. Juliet, TN

APW-06D-WG-20250904 L1895667-07

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 09:55
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596320	1	09/08/25 11:43	09/09/25 11:54	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 01:04	09/09/25 01:04	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	5	09/09/25 01:21	09/09/25 01:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598465	1	09/11/25 23:00	09/11/25 23:00	KRB	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:31	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 14:55	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 20:51	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:14	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:13	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:32	TMT	Mt. Juliet, TN

APW-05R-WG-20250904 L1895667-08

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 12:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596320	1	09/08/25 11:43	09/09/25 11:54	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 01:39	09/09/25 01:39	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	5	09/09/25 01:56	09/09/25 01:56	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:33	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 14:58	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 20:52	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:15	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:16	UNP	Mt. Juliet, TN

SAMPLE SUMMARY

APW-05R-WG-20250904 L1895667-08

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 12:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:36	TMT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

APW-09-WG-20250605 L1895667-09

Collected by: Marshall Arendell
 Collected date/time: 09/05/25 09:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596320	1	09/08/25 11:43	09/09/25 11:54	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 02:13	09/09/25 02:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:36	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 15:00	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 20:54	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:17	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:19	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:39	TMT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

APW-02-WG-20250904 L1895667-10

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 13:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2599520	1	09/12/25 13:25	09/12/25 16:01	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 02:31	09/09/25 02:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	5	09/09/25 02:48	09/09/25 02:48	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:38	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 15:03	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 20:56	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:19	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:22	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	10	09/10/25 11:15	09/24/25 16:42	TMT	Mt. Juliet, TN

9 Sc

APW-01R-WG-20250904 L1895667-11

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 15:25
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2596935	1	09/09/25 11:49	09/09/25 18:50	KCB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 03:40	09/09/25 03:40	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:41	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 15:05	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 21:01	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:21	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:26	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:52	TMT	Mt. Juliet, TN

APW-04-WG-20250904 L1895667-12

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 08:10
 Received date/time: 09/06/25 09:00

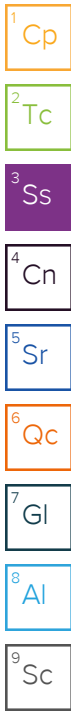
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2599520	1	09/12/25 13:25	09/12/25 16:01	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 03:58	09/09/25 03:58	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN

SAMPLE SUMMARY

APW-04-WG-20250904 L1895667-12

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 08:10
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:43	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 15:13	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 21:03	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:22	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:29	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:55	TMT	Mt. Juliet, TN



EB-01-WG-20250903 L1895667-13

Collected by: Marshall Arendell
 Collected date/time: 09/03/25 10:00
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2595642	1	09/06/25 22:27	09/08/25 14:01	BDC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 04:15	09/09/25 04:15	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:46	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:24	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 16:58	TMT	Mt. Juliet, TN

DUP-01-WG-20250904 L1895667-14

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 00:01
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2599520	1	09/12/25 13:25	09/12/25 16:01	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 04:32	09/09/25 04:32	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	5	09/09/25 19:36	09/09/25 19:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 15:48	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 15:15	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 21:04	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:26	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:32	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 17:02	TMT	Mt. Juliet, TN

DUP-02-WG-20250905 L1895667-15

Collected by: Marshall Arendell
 Collected date/time: 09/05/25 00:02
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2599520	1	09/12/25 13:25	09/12/25 16:01	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2595826	1	09/09/25 04:50	09/09/25 04:50	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2598478	1	09/12/25 14:40	09/12/25 14:40	RJP	Mt. Juliet, TN
Mercury by Method 7470A	WG2596878	1	09/11/25 09:40	09/11/25 14:56	SDG	Mt. Juliet, TN
Mercury by Method 7470A	WG2597351	1	09/11/25 15:51	09/12/25 15:18	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597476	1	09/11/25 11:12	09/11/25 21:06	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2597498	1	09/10/25 11:03	09/10/25 19:28	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597487	1	09/10/25 14:09	09/23/25 14:35	UNP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2597639	1	09/10/25 11:15	09/24/25 17:05	TMT	Mt. Juliet, TN

CASE NARRATIVE

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



Jeff Carr
Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1895667-01	APW-03-WG-20250903	6020B, 6010D, 7470A
L1895667-02	APW-08-WG-20250905	6020B, 6010D, 7470A
L1895667-03	APW-07-WG-20250904	6010D, 6020B, 7470A
L1895667-04	APW-10S-WG-20250903	6020B, 6010D, 7470A
L1895667-05	APW-10D-WG-20250903	6010D, 6020B, 7470A
L1895667-06	APW-06S-WG-20250904	7470A, 6020B, 6010D
L1895667-07	APW-06D-WG-20250904	6020B, 6010D, 7470A
L1895667-08	APW-05R-WG-20250904	6010D, 6020B, 7470A
L1895667-09	APW-09-WG-20250605	6020B, 6010D, 7470A
L1895667-10	APW-02-WG-20250904	6020B, 6010D, 7470A
L1895667-11	APW-01R-WG-20250904	6020B, 6010D, 7470A
L1895667-12	APW-04-WG-20250904	6010D, 7470A, 6020B
L1895667-14	DUP-01-WG-20250904	7470A, 6010D, 6020B
L1895667-15	DUP-02-WG-20250905	6010D, 7470A, 6020B
R4272290-3		6010D
R4277020-3		6020B

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	540		10.0	1	09/08/2025 14:01	WG2595642

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.03		5.00	5	09/09/2025 05:50	WG2595823
Fluoride	ND		0.750	5	09/09/2025 05:50	WG2595823
Sulfate	251		25.0	5	09/09/2025 05:50	WG2595823

Sample Narrative:

L1895667-01 WG2595823: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.03	<u>T8</u>	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-01 WG2598465: 8.03 at 20.4C

Mercury by Method 7470A

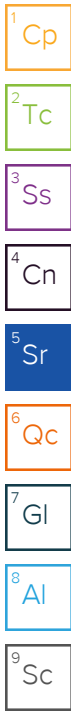
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/13/2025 18:24	WG2596032
Mercury,Dissolved	ND		0.000200	1	09/11/2025 17:47	WG2596881

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	4.36		0.200	1	09/10/2025 18:54	WG2597498
Boron,Dissolved	4.19		0.200	1	09/11/2025 20:40	WG2597476
Calcium	111		1.00	1	09/10/2025 18:54	WG2597498
Calcium,Dissolved	107		1.00	1	09/11/2025 20:40	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:13	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/22/2025 22:47	WG2597487
Arsenic	ND		0.00200	1	09/24/2025 16:13	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487
Barium	0.116		0.00200	1	09/24/2025 16:13	WG2597639
Barium,Dissolved	0.0998		0.00200	1	09/22/2025 22:47	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:13	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:13	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/22/2025 22:47	WG2597487
Chromium	0.00203		0.00200	1	09/24/2025 16:13	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:13	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:13	WG2597639
Lead,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lithium	0.0300		0.00200	1	09/24/2025 16:13	WG2597639
Lithium,Dissolved	0.0294		0.00200	1	09/22/2025 22:47	WG2597487
Molybdenum	0.0628		0.00500	1	09/24/2025 16:13	WG2597639
Molybdenum,Dissolved	0.0596		0.00500	1	09/22/2025 22:47	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:13	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:13	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/22/2025 22:47	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	426		10.0	1	09/09/2025 11:54	WG2596320

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.39		1.00	1	09/09/2025 06:40	WG2595823
Fluoride	0.253		0.150	1	09/09/2025 06:40	WG2595823
Sulfate	27.7		5.00	1	09/09/2025 06:40	WG2595823

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.36	<u>T8</u>	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-02 WG2598465: 7.36 at 20.4C

Mercury by Method 7470A

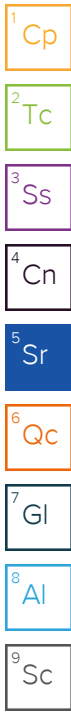
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/13/2025 18:26	WG2596032
Mercury,Dissolved	ND		0.000200	1	09/11/2025 17:49	WG2596881

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/10/2025 19:01	WG2597498
Boron,Dissolved	ND		0.200	1	09/11/2025 20:42	WG2597476
Calcium	102		1.00	1	09/10/2025 19:01	WG2597498
Calcium,Dissolved	100		1.00	1	09/11/2025 20:42	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:16	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/22/2025 23:00	WG2597487
Arsenic	ND		0.00200	1	09/24/2025 16:16	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/22/2025 23:00	WG2597487
Barium	0.200		0.00200	1	09/24/2025 16:16	WG2597639
Barium,Dissolved	0.185		0.00200	1	09/22/2025 23:00	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:16	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/22/2025 23:00	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:16	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/22/2025 23:00	WG2597487
Chromium	ND		0.00200	1	09/24/2025 16:16	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/22/2025 23:00	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:16	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/22/2025 23:00	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:16	WG2597639
Lead,Dissolved	ND		0.00200	1	09/22/2025 23:00	WG2597487
Lithium	0.0180		0.00200	1	09/24/2025 16:16	WG2597639
Lithium,Dissolved	0.0170		0.00200	1	09/22/2025 23:00	WG2597487
Molybdenum	ND		0.00500	1	09/24/2025 16:16	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	09/22/2025 23:00	WG2597487
Selenium	0.0166		0.00200	1	09/24/2025 16:16	WG2597639
Selenium,Dissolved	0.0169		0.00200	1	09/22/2025 23:00	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:16	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/22/2025 23:00	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	729		13.3	1	09/09/2025 11:54	WG2596320

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.97		1.00	1	09/09/2025 07:06	WG2595823
Fluoride	0.174		0.150	1	09/09/2025 07:06	WG2595823
Sulfate	37.4		5.00	1	09/09/2025 07:06	WG2595823

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.08	<u>T8</u>	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-03 WG2598465: 7.08 at 20.5C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/13/2025 18:29	WG2596032
Mercury,Dissolved	ND		0.000200	1	09/11/2025 17:52	WG2596881

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.215		0.200	1	09/10/2025 19:03	WG2597498
Boron,Dissolved	0.204		0.200	1	09/11/2025 20:44	WG2597476
Calcium	212		1.00	1	09/10/2025 19:03	WG2597498
Calcium,Dissolved	201		1.00	1	09/11/2025 20:44	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:20	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/22/2025 23:03	WG2597487
Arsenic	ND		0.00200	1	09/24/2025 16:20	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487
Barium	0.337		0.00200	1	09/24/2025 16:20	WG2597639
Barium,Dissolved	0.256		0.00200	1	09/22/2025 23:03	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:20	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:20	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/22/2025 23:03	WG2597487
Chromium	ND		0.00200	1	09/24/2025 16:20	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:20	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:20	WG2597639
Lead,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487
Lithium	0.0154		0.00200	1	09/24/2025 16:20	WG2597639
Lithium,Dissolved	0.0139		0.00200	1	09/22/2025 23:03	WG2597487
Molybdenum	ND		0.00500	1	09/24/2025 16:20	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	09/22/2025 23:03	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:20	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:20	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/22/2025 23:03	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	780		20.0	1	09/08/2025 14:01	WG2595642

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	10.4		1.00	1	09/09/2025 07:31	WG2595823
Fluoride	0.265		0.150	1	09/09/2025 07:31	WG2595823
Sulfate	ND		5.00	1	09/09/2025 07:31	WG2595823

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.29	<u>T8</u>	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-04 WG2598465: 7.29 at 20.4C

Mercury by Method 7470A

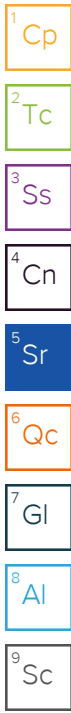
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/13/2025 18:31	WG2596032
Mercury,Dissolved	ND		0.000200	1	09/11/2025 17:54	WG2596881

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.574		0.200	1	09/10/2025 19:05	WG2597498
Boron,Dissolved	0.553		0.200	1	09/11/2025 20:45	WG2597476
Calcium	164		1.00	1	09/10/2025 19:05	WG2597498
Calcium,Dissolved	157		1.00	1	09/11/2025 20:45	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:23	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/22/2025 23:06	WG2597487
Arsenic	0.192		0.00200	1	09/24/2025 16:23	WG2597639
Arsenic,Dissolved	0.0694		0.00200	1	09/22/2025 23:06	WG2597487
Barium	0.601		0.00200	1	09/24/2025 16:23	WG2597639
Barium,Dissolved	0.323		0.00200	1	09/22/2025 23:06	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:23	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/22/2025 23:06	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:23	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/22/2025 23:06	WG2597487
Chromium	ND		0.00200	1	09/24/2025 16:23	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/22/2025 23:06	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:23	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/22/2025 23:06	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:23	WG2597639
Lead,Dissolved	ND		0.00200	1	09/22/2025 23:06	WG2597487
Lithium	0.0297		0.00200	1	09/24/2025 16:23	WG2597639
Lithium,Dissolved	0.0259		0.00200	1	09/22/2025 23:06	WG2597487
Molybdenum	ND		0.00500	1	09/24/2025 16:23	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	09/22/2025 23:06	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:23	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/22/2025 23:06	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:23	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/22/2025 23:06	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	452		10.0	1	09/08/2025 14:01	WG2595642

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	20.8		1.00	1	09/08/2025 23:37	WG2595826
Fluoride	0.150	P1	0.150	1	09/08/2025 23:37	WG2595826
Sulfate	29.1		5.00	1	09/08/2025 23:37	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.57	T8	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-05 WG2598465: 7.57 at 20.4C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/13/2025 18:33	WG2596032
Mercury,Dissolved	ND		0.000200	1	09/11/2025 17:57	WG2596881

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/10/2025 19:07	WG2597498
Boron,Dissolved	ND		0.200	1	09/11/2025 20:47	WG2597476
Calcium	123		1.00	1	09/10/2025 19:07	WG2597498
Calcium,Dissolved	118		1.00	1	09/11/2025 20:47	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:26	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/22/2025 23:09	WG2597487
Arsenic	0.00492		0.00200	1	09/24/2025 16:26	WG2597639
Arsenic,Dissolved	0.00355		0.00200	1	09/22/2025 23:09	WG2597487
Barium	0.315		0.00200	1	09/24/2025 16:26	WG2597639
Barium,Dissolved	0.287		0.00200	1	09/22/2025 23:09	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:26	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/22/2025 23:09	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:26	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/22/2025 23:09	WG2597487
Chromium	ND		0.00200	1	09/24/2025 16:26	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/22/2025 23:09	WG2597487
Cobalt	0.00280		0.00200	1	09/24/2025 16:26	WG2597639
Cobalt,Dissolved	0.00263		0.00200	1	09/22/2025 23:09	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:26	WG2597639
Lead,Dissolved	ND		0.00200	1	09/22/2025 23:09	WG2597487
Lithium	0.0142		0.00200	1	09/24/2025 16:26	WG2597639
Lithium,Dissolved	0.0126		0.00200	1	09/22/2025 23:09	WG2597487
Molybdenum	ND		0.00500	1	09/24/2025 16:26	WG2597639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	09/22/2025 23:09	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:26	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/22/2025 23:09	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:26	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/22/2025 23:09	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	481		10.0	1	09/09/2025 11:54	WG2596320

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	36.1		1.00	1	09/09/2025 00:29	WG2595826
Fluoride	0.223		0.150	1	09/09/2025 00:29	WG2595826
Sulfate	92.6		25.0	5	09/09/2025 00:47	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.65	<u>T8</u>	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-06 WG2598465: 7.65 at 20.9C

Mercury by Method 7470A

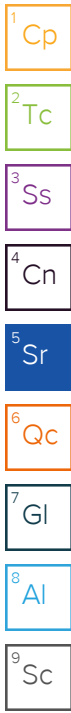
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:29	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 14:53	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	3.78		0.200	1	09/10/2025 19:12	WG2597498
Boron,Dissolved	3.56		0.200	1	09/11/2025 20:49	WG2597476
Calcium	101		1.00	1	09/10/2025 19:12	WG2597498
Calcium,Dissolved	96.0		1.00	1	09/11/2025 20:49	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:29	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:10	WG2597487
Arsenic	ND		0.00200	1	09/24/2025 16:29	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487
Barium	0.197		0.00200	1	09/24/2025 16:29	WG2597639
Barium,Dissolved	0.138		0.00200	1	09/23/2025 14:10	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:29	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:29	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:10	WG2597487
Chromium	0.0326		0.00200	1	09/24/2025 16:29	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:29	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:29	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487
Lithium	0.0311		0.00200	1	09/24/2025 16:29	WG2597639
Lithium,Dissolved	0.0278		0.00200	1	09/23/2025 14:10	WG2597487
Molybdenum	0.203		0.00500	1	09/24/2025 16:29	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.199		0.00500	1	09/23/2025 14:10	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:29	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:29	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:10	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	712		13.3	1	09/09/2025 11:54	WG2596320

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	17.3		1.00	1	09/09/2025 01:04	WG2595826
Fluoride	0.202		0.150	1	09/09/2025 01:04	WG2595826
Sulfate	201		25.0	5	09/09/2025 01:21	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.55	<u>T8</u>	1	09/11/2025 23:00	WG2598465

Sample Narrative:

L1895667-07 WG2598465: 7.55 at 20.5C

Mercury by Method 7470A

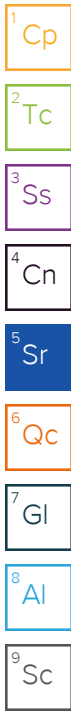
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:31	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 14:55	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	3.63		0.200	1	09/10/2025 19:14	WG2597498
Boron,Dissolved	3.60		0.200	1	09/11/2025 20:51	WG2597476
Calcium	121		1.00	1	09/10/2025 19:14	WG2597498
Calcium,Dissolved	118		1.00	1	09/11/2025 20:51	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:32	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:13	WG2597487
Arsenic	0.0107		0.00200	1	09/24/2025 16:32	WG2597639
Arsenic,Dissolved	0.00467		0.00200	1	09/23/2025 14:13	WG2597487
Barium	0.123		0.00200	1	09/24/2025 16:32	WG2597639
Barium,Dissolved	0.115		0.00200	1	09/23/2025 14:13	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:32	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:13	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:32	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:13	WG2597487
Chromium	0.0945		0.00200	1	09/24/2025 16:32	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:13	WG2597487
Cobalt	0.00223		0.00200	1	09/24/2025 16:32	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:13	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:32	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:13	WG2597487
Lithium	0.0167		0.00200	1	09/24/2025 16:32	WG2597639
Lithium,Dissolved	0.0151		0.00200	1	09/23/2025 14:13	WG2597487
Molybdenum	0.0658		0.00500	1	09/24/2025 16:32	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0598		0.00500	1	09/23/2025 14:13	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:32	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/23/2025 14:13	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:32	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:13	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	485		10.0	1	09/09/2025 11:54	WG2596320

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	20.2		1.00	1	09/09/2025 01:39	WG2595826
Fluoride	0.257		0.150	1	09/09/2025 01:39	WG2595826
Sulfate	97.9		25.0	5	09/09/2025 01:56	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.56	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-08 WG2598478: 7.56 at 23C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:33	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 14:58	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	4.18		0.200	1	09/10/2025 19:15	WG2597498
Boron,Dissolved	4.02		0.200	1	09/11/2025 20:52	WG2597476
Calcium	102		1.00	1	09/10/2025 19:15	WG2597498
Calcium,Dissolved	98.1		1.00	1	09/11/2025 20:52	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:36	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:16	WG2597487
Arsenic	0.00216		0.00200	1	09/24/2025 16:36	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487
Barium	0.139		0.00200	1	09/24/2025 16:36	WG2597639
Barium,Dissolved	0.105		0.00200	1	09/23/2025 14:16	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:36	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:36	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:16	WG2597487
Chromium	ND		0.00200	1	09/24/2025 16:36	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:36	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:36	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487
Lithium	0.0262		0.00200	1	09/24/2025 16:36	WG2597639
Lithium,Dissolved	0.0237		0.00200	1	09/23/2025 14:16	WG2597487
Molybdenum	0.130		0.00500	1	09/24/2025 16:36	WG2597639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.134		0.00500	1	09/23/2025 14:16	WG2597487
Selenium	ND		0.00200	1	09/24/2025 16:36	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:36	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:16	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	374		10.0	1	09/09/2025 11:54	WG2596320

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	9.87		1.00	1	09/09/2025 02:13	WG2595826
Fluoride	0.211		0.150	1	09/09/2025 02:13	WG2595826
Sulfate	44.0		5.00	1	09/09/2025 02:13	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.73	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-09 WG2598478: 7.73 at 22.8C

Mercury by Method 7470A

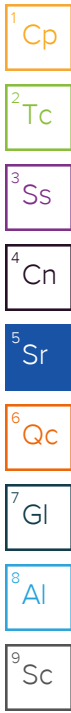
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:36	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 15:00	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.523		0.200	1	09/10/2025 19:17	WG2597498
Boron,Dissolved	0.504		0.200	1	09/11/2025 20:54	WG2597476
Calcium	89.0		1.00	1	09/10/2025 19:17	WG2597498
Calcium,Dissolved	86.6		1.00	1	09/11/2025 20:54	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:39	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:19	WG2597487
Arsenic	0.00225		0.00200	1	09/24/2025 16:39	WG2597639
Arsenic,Dissolved	0.00213		0.00200	1	09/23/2025 14:19	WG2597487
Barium	0.108		0.00200	1	09/24/2025 16:39	WG2597639
Barium,Dissolved	0.106		0.00200	1	09/23/2025 14:19	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:39	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:19	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:39	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:19	WG2597487
Chromium	0.00268		0.00200	1	09/24/2025 16:39	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:19	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:39	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:19	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:39	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:19	WG2597487
Lithium	0.0166		0.00200	1	09/24/2025 16:39	WG2597639
Lithium,Dissolved	0.0147		0.00200	1	09/23/2025 14:19	WG2597487
Molybdenum	0.0252		0.00500	1	09/24/2025 16:39	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0252		0.00500	1	09/23/2025 14:19	WG2597487
Selenium	0.0164		0.00200	1	09/24/2025 16:39	WG2597639
Selenium,Dissolved	0.0170		0.00200	1	09/23/2025 14:19	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:39	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:19	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	799		13.3	1	09/12/2025 16:01	WG2599520

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.16		1.00	1	09/09/2025 02:31	WG2595826
Fluoride	0.218		0.150	1	09/09/2025 02:31	WG2595826
Sulfate	402		25.0	5	09/09/2025 02:48	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.26	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-10 WG2598478: 7.26 at 22.7C

Mercury by Method 7470A

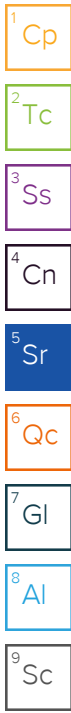
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:38	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 15:03	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	9.90		0.200	1	09/10/2025 19:19	WG2597498
Boron,Dissolved	9.56		0.200	1	09/11/2025 20:56	WG2597476
Calcium	151		1.00	1	09/10/2025 19:19	WG2597498
Calcium,Dissolved	145		1.00	1	09/11/2025 20:56	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.0400	10	09/24/2025 16:42	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:22	WG2597487
Arsenic	ND		0.0200	10	09/24/2025 16:42	WG2597639
Arsenic,Dissolved	0.00382		0.00200	1	09/23/2025 14:22	WG2597487
Barium	0.162		0.0200	10	09/24/2025 16:42	WG2597639
Barium,Dissolved	0.127		0.00200	1	09/23/2025 14:22	WG2597487
Beryllium	ND		0.0200	10	09/24/2025 16:42	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:22	WG2597487
Cadmium	ND		0.0100	10	09/24/2025 16:42	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:22	WG2597487
Chromium	ND		0.0200	10	09/24/2025 16:42	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:22	WG2597487
Cobalt	ND		0.0200	10	09/24/2025 16:42	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:22	WG2597487
Lead	ND		0.0200	10	09/24/2025 16:42	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:22	WG2597487
Lithium	0.0438		0.0200	10	09/24/2025 16:42	WG2597639
Lithium,Dissolved	0.0375		0.00200	1	09/23/2025 14:22	WG2597487
Molybdenum	0.197		0.0500	10	09/24/2025 16:42	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.201		0.00500	1	09/23/2025 14:22	WG2597487
Selenium	ND		0.0200	10	09/24/2025 16:42	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/23/2025 14:22	WG2597487
Thallium	ND		0.0200	10	09/24/2025 16:42	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:22	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	324		10.0	1	09/09/2025 18:50	WG2596935

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	1.10		1.00	1	09/09/2025 03:40	WG2595826
Fluoride	0.155		0.150	1	09/09/2025 03:40	WG2595826
Sulfate	23.3		5.00	1	09/09/2025 03:40	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.79	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-11 WG2598478: 6.79 at 22.7C

Mercury by Method 7470A

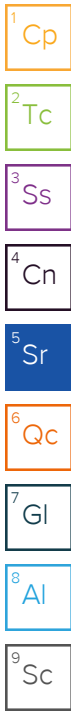
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:41	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 15:05	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/10/2025 19:21	WG2597498
Boron,Dissolved	ND		0.200	1	09/11/2025 21:01	WG2597476
Calcium	72.2		1.00	1	09/10/2025 19:21	WG2597498
Calcium,Dissolved	71.2		1.00	1	09/11/2025 21:01	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:52	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:26	WG2597487
Arsenic	ND		0.00200	1	09/24/2025 16:52	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/23/2025 14:26	WG2597487
Barium	0.148		0.00200	1	09/24/2025 16:52	WG2597639
Barium,Dissolved	0.135		0.00200	1	09/23/2025 14:26	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:52	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:26	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:52	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:26	WG2597487
Chromium	0.00270		0.00200	1	09/24/2025 16:52	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:26	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:52	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:26	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:52	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:26	WG2597487
Lithium	0.0136		0.00200	1	09/24/2025 16:52	WG2597639
Lithium,Dissolved	0.0114		0.00200	1	09/23/2025 14:26	WG2597487
Molybdenum	ND		0.00500	1	09/24/2025 16:52	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	09/23/2025 14:26	WG2597487
Selenium	0.00293		0.00200	1	09/24/2025 16:52	WG2597639
Selenium,Dissolved	0.00309		0.00200	1	09/23/2025 14:26	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:52	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:26	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	436		10.0	1	09/12/2025 16:01	WG2599520

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	9.92		1.00	1	09/09/2025 03:58	WG2595826
Fluoride	0.163		0.150	1	09/09/2025 03:58	WG2595826
Sulfate	69.1		5.00	1	09/09/2025 03:58	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.55	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-12 WG2598478: 7.55 at 22.7C

Mercury by Method 7470A

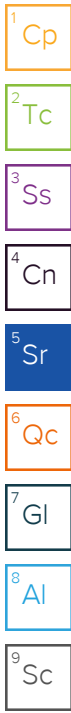
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:43	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 15:13	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	1.21		0.200	1	09/10/2025 19:22	WG2597498
Boron,Dissolved	1.16		0.200	1	09/11/2025 21:03	WG2597476
Calcium	102		1.00	1	09/10/2025 19:22	WG2597498
Calcium,Dissolved	97.7		1.00	1	09/11/2025 21:03	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:55	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:29	WG2597487
Arsenic	ND		0.00200	1	09/24/2025 16:55	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/23/2025 14:29	WG2597487
Barium	0.131		0.00200	1	09/24/2025 16:55	WG2597639
Barium,Dissolved	0.128		0.00200	1	09/23/2025 14:29	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 16:55	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:29	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 16:55	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:29	WG2597487
Chromium	0.00293		0.00200	1	09/24/2025 16:55	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:29	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 16:55	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:29	WG2597487
Lead	ND		0.00200	1	09/24/2025 16:55	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:29	WG2597487
Lithium	0.0297		0.00200	1	09/24/2025 16:55	WG2597639
Lithium,Dissolved	0.0253		0.00200	1	09/23/2025 14:29	WG2597487
Molybdenum	0.0538		0.00500	1	09/24/2025 16:55	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0549		0.00500	1	09/23/2025 14:29	WG2597487
Selenium	0.0179		0.00200	1	09/24/2025 16:55	WG2597639
Selenium,Dissolved	0.0173		0.00200	1	09/23/2025 14:29	WG2597487
Thallium	ND		0.00200	1	09/24/2025 16:55	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:29	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	09/08/2025 14:01	WG2595642

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	09/09/2025 04:15	WG2595826
Fluoride	ND		0.150	1	09/09/2025 04:15	WG2595826
Sulfate	ND		5.00	1	09/09/2025 04:15	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	5.58	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-13 WG2598478: 5.58 at 22.8C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:46	WG2596878

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	09/10/2025 19:24	WG2597498
Calcium	ND		1.00	1	09/10/2025 19:24	WG2597498

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 16:58	WG2597639
Arsenic	ND		0.00200	1	09/24/2025 16:58	WG2597639
Barium	ND		0.00200	1	09/24/2025 16:58	WG2597639
Beryllium	ND		0.00200	1	09/24/2025 16:58	WG2597639
Cadmium	ND		0.00100	1	09/24/2025 16:58	WG2597639
Chromium	ND		0.00200	1	09/24/2025 16:58	WG2597639
Cobalt	ND		0.00200	1	09/24/2025 16:58	WG2597639
Lead	ND		0.00200	1	09/24/2025 16:58	WG2597639
Lithium	ND		0.00200	1	09/24/2025 16:58	WG2597639
Molybdenum	ND		0.00500	1	09/24/2025 16:58	WG2597639
Selenium	ND		0.00200	1	09/24/2025 16:58	WG2597639
Thallium	ND		0.00200	1	09/24/2025 16:58	WG2597639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	479		10.0	1	09/12/2025 16:01	WG2599520

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	24.1		1.00	1	09/09/2025 04:32	WG2595826
Fluoride	0.301		0.150	1	09/09/2025 04:32	WG2595826
Sulfate	116		25.0	5	09/09/2025 19:36	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.53	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-14 WG2598478: 7.53 at 22.7C

Mercury by Method 7470A

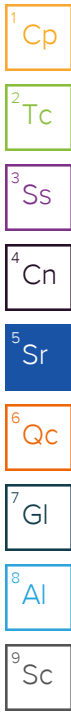
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 15:48	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 15:15	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	4.20		0.200	1	09/10/2025 19:26	WG2597498
Boron,Dissolved	4.00		0.200	1	09/11/2025 21:04	WG2597476
Calcium	102		1.00	1	09/10/2025 19:26	WG2597498
Calcium,Dissolved	97.4		1.00	1	09/11/2025 21:04	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 17:02	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:32	WG2597487
Arsenic	0.00218		0.00200	1	09/24/2025 17:02	WG2597639
Arsenic,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487
Barium	0.141		0.00200	1	09/24/2025 17:02	WG2597639
Barium,Dissolved	0.101		0.00200	1	09/23/2025 14:32	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 17:02	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 17:02	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:32	WG2597487
Chromium	0.00298		0.00200	1	09/24/2025 17:02	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 17:02	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487
Lead	ND		0.00200	1	09/24/2025 17:02	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487
Lithium	0.0269		0.00200	1	09/24/2025 17:02	WG2597639
Lithium,Dissolved	0.0229		0.00200	1	09/23/2025 14:32	WG2597487
Molybdenum	0.132		0.00500	1	09/24/2025 17:02	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.132		0.00500	1	09/23/2025 14:32	WG2597487
Selenium	ND		0.00200	1	09/24/2025 17:02	WG2597639
Selenium,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487
Thallium	ND		0.00200	1	09/24/2025 17:02	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:32	WG2597487

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

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	375		10.0	1	09/12/2025 16:01	WG2599520

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	9.54		1.00	1	09/09/2025 04:50	WG2595826
Fluoride	0.201		0.150	1	09/09/2025 04:50	WG2595826
Sulfate	43.3		5.00	1	09/09/2025 04:50	WG2595826

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.67	<u>T8</u>	1	09/12/2025 14:40	WG2598478

Sample Narrative:

L1895667-15 WG2598478: 7.67 at 22.7C

Mercury by Method 7470A

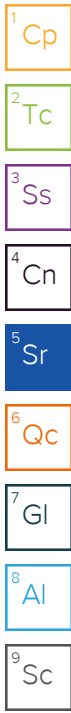
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	09/11/2025 14:56	WG2596878
Mercury,Dissolved	ND		0.000200	1	09/12/2025 15:18	WG2597351

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.530		0.200	1	09/10/2025 19:28	WG2597498
Boron,Dissolved	0.505		0.200	1	09/11/2025 21:06	WG2597476
Calcium	88.5		1.00	1	09/10/2025 19:28	WG2597498
Calcium,Dissolved	86.3		1.00	1	09/11/2025 21:06	WG2597476

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	09/24/2025 17:05	WG2597639
Antimony,Dissolved	ND		0.00400	1	09/23/2025 14:35	WG2597487
Arsenic	0.00203		0.00200	1	09/24/2025 17:05	WG2597639
Arsenic,Dissolved	0.00209		0.00200	1	09/23/2025 14:35	WG2597487
Barium	0.107		0.00200	1	09/24/2025 17:05	WG2597639
Barium,Dissolved	0.106		0.00200	1	09/23/2025 14:35	WG2597487
Beryllium	ND		0.00200	1	09/24/2025 17:05	WG2597639
Beryllium,Dissolved	ND		0.00200	1	09/23/2025 14:35	WG2597487
Cadmium	ND		0.00100	1	09/24/2025 17:05	WG2597639
Cadmium,Dissolved	ND		0.00100	1	09/23/2025 14:35	WG2597487
Chromium	ND		0.00200	1	09/24/2025 17:05	WG2597639
Chromium,Dissolved	ND		0.00200	1	09/23/2025 14:35	WG2597487
Cobalt	ND		0.00200	1	09/24/2025 17:05	WG2597639
Cobalt,Dissolved	ND		0.00200	1	09/23/2025 14:35	WG2597487
Lead	ND		0.00200	1	09/24/2025 17:05	WG2597639
Lead,Dissolved	ND		0.00200	1	09/23/2025 14:35	WG2597487
Lithium	0.0159		0.00200	1	09/24/2025 17:05	WG2597639
Lithium,Dissolved	0.0141		0.00200	1	09/23/2025 14:35	WG2597487
Molybdenum	0.0238		0.00500	1	09/24/2025 17:05	WG2597639



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0250		0.00500	1	09/23/2025 14:35	WG2597487
Selenium	0.0160		0.00200	1	09/24/2025 17:05	WG2597639
Selenium,Dissolved	0.0173		0.00200	1	09/23/2025 14:35	WG2597487
Thallium	ND		0.00200	1	09/24/2025 17:05	WG2597639
Thallium,Dissolved	ND		0.00200	1	09/23/2025 14:35	WG2597487

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4271613-1 09/08/25 14:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1895170-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1895170-01 09/08/25 14:01 • (DUP) R4271613-3 09/08/25 14:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	121	121	1	0.000		10

4 Cn

5 Sr

6 Qc

L1895667-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1895667-13 09/08/25 14:01 • (DUP) R4271613-4 09/08/25 14:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	ND	ND	1	0.000		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4271613-2 09/08/25 14:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8500	96.6	90.0-110	

Method Blank (MB)

(MB) R4272469-1 09/09/25 11:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1895647-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1895647-08 09/09/25 11:54 • (DUP) R4272469-3 09/09/25 11:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	1090	1060	1	2.60		10

L1895695-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1895695-08 09/09/25 11:54 • (DUP) R4272469-4 09/09/25 11:54

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	59.0	58.0	1	1.71		10

Laboratory Control Sample (LCS)

(LCS) R4272469-2 09/09/25 11:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8570	97.4	90.0-110	

Method Blank (MB)

(MB) R4271943-1 09/09/25 18:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

L1895667-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1895667-11 09/09/25 18:50 • (DUP) R4271943-3 09/09/25 18:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	324	324	1	0.000		10

⁴Cn

⁵Sr

L1895882-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1895882-19 09/09/25 18:50 • (DUP) R4271943-4 09/09/25 18:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	863	848	1	1.72		10

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4271943-2 09/09/25 18:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8330	94.7	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4273884-1 09/12/25 16:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Dissolved Solids	U		10.0	10.0

1 Cp

2 Tc

3 Ss

L1895658-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1895658-03 09/12/25 16:01 • (DUP) R4273884-3 09/12/25 16:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	396	401	1	1.25		10

4 Cn

5 Sr

6 Qc

L1895668-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1895668-06 09/12/25 16:01 • (DUP) R4273884-4 09/12/25 16:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	33100	32600	1	1.52		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4273884-2 09/12/25 16:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Dissolved Solids	8800	8740	99.3	90.0-110	

Method Blank (MB)

(MB) R4270602-1 09/08/25 21:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

L1895467-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1895467-02 09/08/25 21:27 • (DUP) R4270602-3 09/08/25 21:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	7.03	7.26	1	3.16		15
Fluoride	0.218	0.204	1	6.92		15
Sulfate	52.1	54.0	1	3.46		15

L1895467-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1895467-03 09/08/25 22:43 • (DUP) R4270602-7 09/08/25 23:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	4.55	4.43	1	2.66		15
Fluoride	ND	ND	1	3.82		15
Sulfate	40.9	40.3	1	1.33		15

Laboratory Control Sample (LCS)

(LCS) R4270602-2 09/08/25 21:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	38.7	96.7	80.0-120	
Fluoride	8.00	7.90	98.7	80.0-120	
Sulfate	40.0	40.0	100	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1895467-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895467-02 09/08/25 21:27 • (MS) R4270602-5 09/08/25 22:18 • (MSD) R4270602-6 09/08/25 22:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	7.03	44.4	42.8	93.3	89.4	1	80.0-120			3.60	15
Fluoride	8.00	0.218	8.19	7.92	99.7	96.3	1	80.0-120			3.38	15
Sulfate	40.0	52.1	82.5	79.2	75.9	67.7	1	80.0-120	<u>J6</u>	<u>J6</u>	4.09	15

L1895467-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1895467-03 09/08/25 22:43 • (MS) R4270602-9 09/08/25 23:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	4.55	41.4	92.1	1	80.0-120	
Fluoride	8.00	ND	7.94	97.5	1	80.0-120	
Sulfate	40.0	40.9	71.5	76.5	1	80.0-120	<u>J6</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4270657-1 09/08/25 22:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Fluoride	U		0.0761	0.150
Sulfate	U		0.637	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1895667-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1895667-05 09/08/25 23:37 • (DUP) R4270657-3 09/08/25 23:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	20.8	19.5	1	6.09		15
Fluoride	0.150	ND	1	16.5	P1	15
Sulfate	29.1	27.0	1	7.46		15

L1895688-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1895688-02 09/09/25 05:24 • (DUP) R4270657-5 09/09/25 05:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	21.4	16.5	1	25.9	J3	15
Fluoride	0.467	0.379	1	20.9	P1	15
Sulfate	14.8	11.9	1	22.0	P1	15

Laboratory Control Sample (LCS)

(LCS) R4270657-2 09/08/25 23:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	33.5	83.7	80.0-120	
Fluoride	8.00	6.97	87.2	80.0-120	
Sulfate	40.0	33.5	83.8	80.0-120	

L1895667-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1895667-05 09/08/25 23:37 • (MS) R4270657-4 09/09/25 00:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	20.8	60.7	99.9	1	80.0-120	
Fluoride	8.00	0.150	9.42	116	1	80.0-120	
Sulfate	40.0	29.1	68.8	99.3	1	80.0-120	

L1895688-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895688-02 09/09/25 05:24 • (MS) R4270657-6 09/09/25 05:59 • (MSD) R4270657-7 09/09/25 06:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	21.4	58.2	58.8	91.9	93.4	1	80.0-120			1.03	15
Fluoride	8.00	0.467	9.51	9.95	113	119	1	80.0-120			4.53	15
Sulfate	40.0	14.8	52.0	55.7	93.1	102	1	80.0-120			6.83	15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1895051-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1895051-02 09/11/25 23:00 • (DUP) R4272273-2 09/11/25 23:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
SU	SU	su		%		%
pH	8.42	8.42	1	0.000		1

Sample Narrative:

OS: 8.42 at 21.2C
DUP: 8.42 at 21.1C

L1895667-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1895667-07 09/11/25 23:00 • (DUP) R4272273-3 09/11/25 23:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
SU	su	su		%		%
pH	7.55	7.56	1	0.132		1

Sample Narrative:

OS: 7.55 at 20.5C
DUP: 7.56 at 20.3C

Laboratory Control Sample (LCS)

(LCS) R4272273-1 09/11/25 23:00

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
SU	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 20.3C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1895667-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1895667-08 09/12/25 14:40 • (DUP) R4272664-2 09/12/25 14:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.56	7.53	1	0.398		1

Sample Narrative:

OS: 7.56 at 23C

DUP: 7.53 at 23C

L1896799-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1896799-01 09/12/25 14:40 • (DUP) R4272664-3 09/12/25 14:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.86	6.81	1	0.732		1

Sample Narrative:

OS: 6.86 at 23.4C

DUP: 6.81 at 23.1C

Laboratory Control Sample (LCS)

(LCS) R4272664-1 09/12/25 14:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 22.4C

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4272957-1 09/13/25 17:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Mercury	U		0.0000700	0.000200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4272957-2 09/13/25 17:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.00300	0.00284	94.6	80.0-120	

4 Cn

5 Sr

L1895618-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895618-01 09/13/25 17:28 • (MS) R4272957-4 09/13/25 17:33 • (MSD) R4272957-5 09/13/25 17:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Mercury	0.00300	ND	0.00249	0.00280	83.1	93.4	1	75.0-125			11.6	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4272341-1 09/11/25 14:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4272341-2 09/11/25 14:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00275	91.7	80.0-120	

L1895667-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895667-15 09/11/25 14:56 • (MS) R4272341-4 09/11/25 15:01 • (MSD) R4272341-5 09/11/25 15:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00286	0.00275	95.4	91.8	1	75.0-125			3.88	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4272340-1 09/11/25 16:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.0000700	0.000200

Laboratory Control Sample (LCS)

(LCS) R4272340-2 09/11/25 16:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00267	88.9	80.0-120	

L1894910-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1894910-03 09/11/25 16:21 • (MS) R4272340-4 09/11/25 16:43 • (MSD) R4272340-5 09/11/25 16:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	ND	0.00177	0.00309	59.0	103	1	75.0-125	<u>J6</u>	<u>J3</u>	54.3	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4272616-1 09/12/25 14:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.0000700	0.000200

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4272616-2 09/12/25 14:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00297	98.8	80.0-120	

4 Cn

5 Sr

L1895456-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895456-02 09/12/25 14:28 • (MS) R4272616-4 09/12/25 14:33 • (MSD) R4272616-5 09/12/25 14:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury,Dissolved	0.00300	ND	0.00300	0.00300	100	99.9	1	75.0-125			0.258	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4272290-1 09/11/25 20:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron,Dissolved	U		0.0233	0.200
Calcium,Dissolved	U		0.153	1.00

Laboratory Control Sample (LCS)

(LCS) R4272290-2 09/11/25 20:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron,Dissolved	1.00	0.954	95.4	80.0-120	
Calcium,Dissolved	10.0	9.92	99.2	80.0-120	

L1895360-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895360-03 09/11/25 20:23 • (MS) R4272290-4 09/11/25 20:26 • (MSD) R4272290-5 09/11/25 20:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron,Dissolved	1.00	ND	1.00	0.986	97.8	96.3	1	75.0-125			1.48	20
Calcium,Dissolved	10.0	17.0	26.8	26.5	97.5	95.1	1	75.0-125			0.904	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4271862-1 09/10/25 18:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0233	0.200
Calcium	U		0.153	1.00

Laboratory Control Sample (LCS)

(LCS) R4271862-2 09/10/25 18:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	1.00	0.975	97.5	80.0-120	
Calcium	10.0	10.2	102	80.0-120	

L1895667-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895667-01 09/10/25 18:54 • (MS) R4271862-4 09/10/25 18:58 • (MSD) R4271862-5 09/10/25 19:00

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron	1.00	4.36	5.28	5.30	92.0	94.1	1	75.0-125			0.404	20
Calcium	10.0	111	120	120	86.7	90.7	1	75.0-125			0.330	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4277020-1 09/22/25 22:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony,Dissolved	U		0.000310	0.00400
Arsenic,Dissolved	U		0.000120	0.00200
Barium,Dissolved	U		0.000500	0.00200
Beryllium,Dissolved	U		0.000200	0.00200
Cadmium,Dissolved	U		0.000120	0.00100
Chromium,Dissolved	U		0.000900	0.00200
Cobalt,Dissolved	U		0.000100	0.00200
Lead,Dissolved	U		0.000500	0.00200
Lithium,Dissolved	U		0.000600	0.00200
Molybdenum,Dissolved	U		0.000500	0.00500
Selenium,Dissolved	U		0.000250	0.00200
Thallium,Dissolved	U		0.000130	0.00200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4277020-2 09/22/25 22:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony,Dissolved	0.0500	0.0461	92.3	80.0-120	
Arsenic,Dissolved	0.0500	0.0471	94.2	80.0-120	
Barium,Dissolved	0.0500	0.0467	93.5	80.0-120	
Beryllium,Dissolved	0.0500	0.0477	95.5	80.0-120	
Cadmium,Dissolved	0.0500	0.0505	101	80.0-120	
Chromium,Dissolved	0.0500	0.0493	98.6	80.0-120	
Cobalt,Dissolved	0.0500	0.0493	98.6	80.0-120	
Lead,Dissolved	0.0500	0.0455	91.1	80.0-120	
Lithium,Dissolved	0.0500	0.0478	95.5	80.0-120	
Molybdenum,Dissolved	0.0500	0.0463	92.6	80.0-120	
Selenium,Dissolved	0.0500	0.0469	93.9	80.0-120	
Thallium,Dissolved	0.0500	0.0462	92.4	80.0-120	

L1895667-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895667-01 09/22/25 22:47 • (MS) R4277020-4 09/22/25 22:54 • (MSD) R4277020-5 09/22/25 22:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony,Dissolved	0.0500	ND	0.0495	0.0477	99.0	95.5	1	75.0-125			3.62	20
Arsenic,Dissolved	0.0500	ND	0.0519	0.0522	101	102	1	75.0-125			0.662	20
Barium,Dissolved	0.0500	0.0998	0.146	0.144	92.4	88.0	1	75.0-125			1.52	20

L1895667-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895667-01 09/22/25 22:47 • (MS) R4277020-4 09/22/25 22:54 • (MSD) R4277020-5 09/22/25 22:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Beryllium,Dissolved	0.0500	ND	0.0510	0.0493	102	98.6	1	75.0-125			3.42	20
Cadmium,Dissolved	0.0500	ND	0.0491	0.0463	98.1	92.7	1	75.0-125			5.69	20
Chromium,Dissolved	0.0500	ND	0.0488	0.0473	97.7	94.6	1	75.0-125			3.20	20
Cobalt,Dissolved	0.0500	ND	0.0488	0.0473	97.6	94.6	1	75.0-125			3.15	20
Lead,Dissolved	0.0500	ND	0.0461	0.0452	92.2	90.5	1	75.0-125			1.93	20
Lithium,Dissolved	0.0500	0.0294	0.0777	0.0738	96.6	88.8	1	75.0-125			5.15	20
Molybdenum,Dissolved	0.0500	0.0596	0.110	0.106	99.8	92.4	1	75.0-125			3.42	20
Selenium,Dissolved	0.0500	ND	0.0515	0.0493	103	98.6	1	75.0-125			4.35	20
Thallium,Dissolved	0.0500	ND	0.0462	0.0455	92.3	90.9	1	75.0-125			1.58	20

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

Method Blank (MB)

(MB) R4277935-1 09/24/25 15:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	0.000918	U	0.000310	0.00400
Arsenic	U		0.000120	0.00200
Barium	0.000814	U	0.000500	0.00200
Beryllium	U		0.000200	0.00200
Cadmium	U		0.000120	0.00100
Chromium	U		0.000900	0.00200
Cobalt	U		0.000100	0.00200
Lead	0.000844	U	0.000500	0.00200
Lithium	U		0.000600	0.00200
Molybdenum	U		0.000500	0.00500
Selenium	U		0.000250	0.00200
Thallium	U		0.000130	0.00200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4277935-2 09/24/25 15:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0552	110	80.0-120	
Arsenic	0.0500	0.0496	99.2	80.0-120	
Barium	0.0500	0.0480	95.9	80.0-120	
Beryllium	0.0500	0.0491	98.2	80.0-120	
Cadmium	0.0500	0.0528	106	80.0-120	
Chromium	0.0500	0.0520	104	80.0-120	
Cobalt	0.0500	0.0511	102	80.0-120	
Lead	0.0500	0.0502	100	80.0-120	
Lithium	0.0500	0.0496	99.2	80.0-120	
Molybdenum	0.0500	0.0515	103	80.0-120	
Selenium	0.0500	0.0519	104	80.0-120	
Thallium	0.0500	0.0511	102	80.0-120	

L1895549-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895549-20 09/24/25 15:25 • (MS) R4277935-4 09/24/25 15:31 • (MSD) R4277935-5 09/24/25 15:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	ND	0.0529	0.0540	104	106	1	75.0-125			2.06	20
Arsenic	0.0500	ND	0.0484	0.0490	96.7	97.9	1	75.0-125			1.20	20
Barium	0.0500	ND	0.0499	0.0493	99.8	98.6	1	75.0-125			1.21	20

L1895549-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895549-20 09/24/25 15:25 • (MS) R4277935-4 09/24/25 15:31 • (MSD) R4277935-5 09/24/25 15:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Beryllium	0.0500	ND	0.0493	0.0495	98.7	98.9	1	75.0-125			0.240	20
Cadmium	0.0500	ND	0.0535	0.0530	107	106	1	75.0-125			0.871	20
Chromium	0.0500	ND	0.0520	0.0522	104	104	1	75.0-125			0.435	20
Cobalt	0.0500	ND	0.0515	0.0519	103	104	1	75.0-125			0.656	20
Lead	0.0500	ND	0.0493	0.0507	98.6	101	1	75.0-125			2.83	20
Lithium	0.0500	ND	0.0498	0.0492	99.7	98.4	1	75.0-125			1.32	20
Molybdenum	0.0500	ND	0.0505	0.0502	101	100	1	75.0-125			0.695	20
Selenium	0.0500	ND	0.0512	0.0519	102	104	1	75.0-125			1.30	20
Thallium	0.0500	ND	0.0501	0.0511	100	102	1	75.0-125			1.97	20

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

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

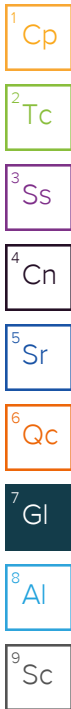
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

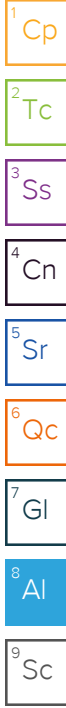
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address:
ERM - St. Louis, MO
 1968 Craig Road, Suite 100
 Saint Louis, MO 63146

Billing Information:
 Accounts Payable Dept.
 1701 Golf Road, Suite 1-1000
 Rolling Meadows, IL 60008-4242

Analysis / Container / Preservative										

Chain of Custody Page **1** of **2**

Pace
 PEOPLE ADVANCING SCIENCE

Report to:
 Randy Homburg 314-682-3980

Email To:
 Randy.Homburg@erm.com; Tim.Wilson@erm.co

Project Description:
 Grand Tower Energy Center Groundwater 3Q25

City/State Collected:
 Grand Tower, IL

Please Circle:
 PT MT **ET**

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
0599247

Lab Project #
ERMSCMO-0599247

Collected by (print):
 Marshall Arendell

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day **X** STD TAT

Quote #
 Date Results Needed

Immediately
 Packed on Ice N ___ Y **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Anions 125mlHDPE-NoPres	Dissolved Metals 250mlHDPE-NoPres	TDS 1L-HDPE NoPres	Total Metals 250mlHDPE-HNO3	pH 125mlHDPE-NoPres
APW-03-WG-2025 0903		GW		9/3/2025	1430	5	X	X	X	X	X
APW-08-WG-2025 0905		GW		9/5/2025	0835	5	X	X	X	X	X
APW-07-WG-2025 0904		GW		9/4/2025	1635	5	X	X	X	X	X
APW-10S-WG-2025 0903		GW		9/3/2025	1645	5	X	X	X	X	X
APW-10D-WG-2025 0903		GW		9/3/2025	1555	5	X	X	X	X	X
APW-06S-WG-2025 0904		GW		9/4/2025	1055	5	X	X	X	X	X
APW-06D-WG-2025 0904		GW		9/4/2025	0955	5	X	X	X	X	X
APW-05R-WG-2025 0904		GW		9/4/2025	1230	5	X	X	X	X	X
APW-09-WG-2025 0905		GW		9/5/2025	0930	5	X	X	X	X	X
APW-02-WG-2025 0904		GW		9/4/2025	1330	5	X	X	X	X	X

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L1895067**

F015

Acctnum: **ERMSCMO**
 Template: **T243415**
 Prelogin: **P1171954**
 PM: **206 - Jeff Carr**
 PB:

Shipped Via: **FedEx Ground**

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

Tracking #

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	Y <input type="checkbox"/> N <input type="checkbox"/>
Bottles arrive intact:	Y <input type="checkbox"/> N <input type="checkbox"/>
Correct bottles used:	Y <input type="checkbox"/> N <input type="checkbox"/>
Sufficient volume sent:	Y <input type="checkbox"/> N <input type="checkbox"/>
If Applicable	
VOA Zero Headspace:	Y <input type="checkbox"/> N <input type="checkbox"/>
Preservation Correct/Checked:	Y <input type="checkbox"/> N <input type="checkbox"/>
RAD Screen <0.5 mR/hr:	Y <input type="checkbox"/> N <input type="checkbox"/>

Relinquished by: (Signature)

Date: 9/5/2025
 Time: 1200

Received by: (Signature)

Trip Blank Received: Yes/No
 HCL / MeOH
 TBR

Temp: °C
 Bottles Received: 74

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF / OK

Company Name/Address:
ERM - St. Louis, MO
 1968 Craig Road, Suite 100
 Saint Louis, MO 63146

Billing Information:
 Accounts Payable Dept.
 1701 Golf Road, Suite 1-1000
 Rolling Meadows, IL 60008-4242

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Randy Homburg 314-682-3980

Email To:
 Randy.Homburg@erm.com; Tim.Wilson@erm.co

Project Description:
Grand Tower Energy Center Groundwater 3Q25

City/State Collected: **Grand Tower, IL**

Please Circle:
 PT MT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
0599247

Lab Project #
ERMSCMO-0599247

Collected by (print):
Marshall Amendell

Site/Facility ID #

P.O. #

Collected by (signature):
Marshall Amendell

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day STD TAT

Quote #
 Date Results Needed

Immediately Packed on Ice N ___ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Anions 125mlHDPE-NoPres	Dissolved Metals 250mlHDPE-NoPres	TDS 1L-HDPE NoPres	Total Metals 250mlHDPE-HNO3	pH 125mlHDPE-NoPres
APW-01R-WG-2025 0904	Grab	GW		9/4/2025	1525	5	X	X	X	X	X
APW-04-WG-2025 0904		GW		9/4/2025	0810	5	X	X	X	X	X
EB-01-WG-2025 0903		GW		9/3/2025	1000	4	X	X	X	X	X
DUP-01-WG-2025 0904		GW		9/4/2025	0001	5	X	X	X	X	X
DUP-02-WG-2025 0905		GW		9/5/2025	0002	5	X	X	X	X	X

SDG # **L1895007**

Table #

Acctnum: **ERMSCMO**
 Template: **T243415**

Prelogin: **P1171954**
 PM: **206 - Jeff Carr**

PB:

Shipped Via: **FedEx Ground**

Remarks Sample # (lab only)

11
 12
 13
 14
 15
 No. dis. collected for EG-01

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____
 Samples returned via: ___ UPS ___ FedEx ___ Courier
 Tracking #

Sample Receipt Checklist
 COC Seal Present/Intact: ___ NP Y ___ N
 COC Signed/Accurate: ___ Y ___ N
 Bottles arrive intact: ___ Y ___ N
 Correct bottles used: ___ Y ___ N
 Sufficient volume sent: ___ Y ___ N
 If Applicable
 VOA Zero HeadSpace: ___ Y ___ N
 Preservation Correct/Checked: ___ Y ___ N
 RAD Screen <0.5 mR/hr: ___ Y ___ N

Relinquished by: (Signature)
Marshall Amendell

Date: **9/5/2025** Time: **1200**

Received by: (Signature)
Tom Brown

Trip Blank Received: Yes/No
 HCL/MeOH TBR

Relinquished by: (Signature)
Tom

Date: Time:

Received by: (Signature)

Temp: °C Bottles Received: **74**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)
CRoberts

Date: **09/06/25** Time: **0900**

Hold: Condition: **NCF / OK**

Multiple Parcel Form

L#

U/895067

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4580 6312 5225	TWA9	2.3	-0.1	2.2	Yes / No / <u>Not Present</u>
4580 6312 5230		0.4	-0.1	0.3	Yes / No / <u>Not Present</u>
4102 9107 4331		4.7	-0.1	4.6	Yes / No / <u>Not Present</u>
4416 7188 8478		3.4	-0.1	3.3	Yes / No / <u>Not Present</u>
4718 2716 7417		0.2	-0.1	0.1	Yes / No / <u>Not Present</u>
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

CRORONA

Name

09-06-25

Date

APPENDIX E FOURTH QUARTER 2024 RADIOLOGICAL
LABORATORY ANALYTICAL REPORT

October 06, 2025

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ERM - St. Louis, MO

Sample Delivery Group: L1895679
Samples Received: 09/06/2025
Project Number: 0599247
Description: Grand Tower Energy Center Groundwater 2Q25 Sampling
Report To: Randy Homburg
1968 Craig Road, Suite 100
Saint Louis, MO 63146

Entire Report Reviewed By:



Jeff Carr
Project Manager

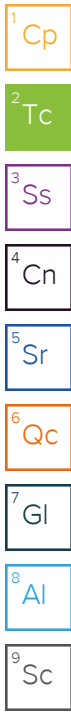
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory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

Pace Analytical National

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

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APW-10S-WG-20250903 L1895679-04	10
APW-10D-WG-20250903 L1895679-05	11
APW-06S-WG-20250904 L1895679-06	12
APW-06D-WG-20250904 L1895679-07	13
APW-05R-WG-20250904 L1895679-08	14
APW-09-WG-20250905 L1895679-09	15
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APW-01R-WG-20250904 L1895679-11	17
APW-04-WG-20250904 L1895679-12	18
EB-01-WG-20250903 L1895679-13	19
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SAMPLE SUMMARY

APW-03-WG-20250903 L1895679-01

Collected by: Marshall Arendell
 Collected date/time: 09/03/25 14:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2604016	1	09/22/25 10:09	09/26/25 11:51	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN



APW-08-WG-20250905 L1895679-02

Collected by: Marshall Arendell
 Collected date/time: 09/05/25 08:35
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2604016	1	09/22/25 10:09	09/26/25 11:51	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-07-WG-20250904 L1895679-03

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 16:35
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2605695	1	09/23/25 06:41	09/29/25 12:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-10S-WG-20250903 L1895679-04

Collected by: Marshall Arendell
 Collected date/time: 09/03/25 16:45
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2605695	1	09/23/25 06:41	09/29/25 12:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-10D-WG-20250903 L1895679-05

Collected by: Marshall Arendell
 Collected date/time: 09/03/25 15:55
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-06S-WG-20250904 L1895679-06

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 10:55
 Received date/time: 09/06/25 09:00

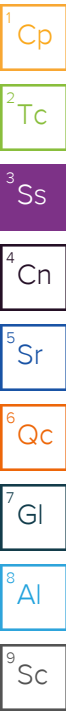
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

APW-06D-WG-20250904 L1895679-07

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 09:55
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN



APW-05R-WG-20250904 L1895679-08

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 12:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-09-WG-20250905 L1895679-09

Collected by: Marshall Arendell
 Collected date/time: 09/05/25 09:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-02-WG-20250904 L1895679-10

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 13:30
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2608656	1	09/29/25 08:57	09/30/25 21:48	RGT	Mt. Juliet, TN

APW-01R-WG-20250904 L1895679-11

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 15:25
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2610081	1	09/30/25 09:02	10/03/25 16:09	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2610081	1	09/30/25 09:02	10/03/25 16:09	ZRG	Mt. Juliet, TN

APW-04-WG-20250904 L1895679-12

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 08:10
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

EB-01-WG-20250903 L1895679-13

Collected by: Marshall Arendell
 Collected date/time: 09/03/25 10:00
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

DUP-01-WG-20250904 L1895679-14

Collected by: Marshall Arendell
 Collected date/time: 09/04/25 00:01
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

DUP-02-WG-20250905 L1895679-15

Collected by: Marshall Arendell
 Collected date/time: 09/05/25 00:02
 Received date/time: 09/06/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2603155	1	09/18/25 07:05	09/22/25 11:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2610081	1	09/30/25 09:02	10/01/25 17:27	ZRG	Mt. Juliet, TN

⁸Al

⁹Sc

CASE NARRATIVE

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



Jeff Carr
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.597		0.557	0.593	0.551	0.297	09/26/2025 11:51	WG2604016
(T) Barium	95.0					30.0-110	09/26/2025 11:51	WG2604016
(T) Yttrium	97.5					30.0-110	09/26/2025 11:51	WG2604016

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.899		0.661	0.739	09/30/2025 21:48	WG2608656

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.302	J	0.356	0.469	0.492	0.168	09/30/2025 21:48	WG2608656
(T) Barium-133	74.6					30.0-110	09/30/2025 21:48	WG2608656

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.950		0.568	0.613	0.543	0.293	09/26/2025 11:51	WG2604016
(T) Barium	123	<u>C1</u>				30.0-110	09/26/2025 11:51	WG2604016
(T) Yttrium	96.4					30.0-110	09/26/2025 11:51	WG2604016

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.22		0.638	0.664	09/30/2025 21:48	WG2608656

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.273	<u>J</u>	0.291	0.397	0.382	0.116	09/30/2025 21:48	WG2608656
(T) Barium-133	82.0					30.0-110	09/30/2025 21:48	WG2608656

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.32		0.518	0.568	0.787	0.251	09/29/2025 12:30	WG2605695
(T) Barium	122	C1				30.0-110	09/29/2025 12:30	WG2605695
(T) Yttrium	104					30.0-110	09/29/2025 12:30	WG2605695

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.91		0.654	0.893	09/30/2025 21:48	WG2608656

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.597		0.399	0.553	0.423	0.136	09/30/2025 21:48	WG2608656
(T) Barium-133	77.8					30.0-110	09/30/2025 21:48	WG2608656

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.19		0.510	0.558	0.782	0.249	09/29/2025 12:30	WG2605695
(T) Barium	105					30.0-110	09/29/2025 12:30	WG2605695
(T) Yttrium	97.9					30.0-110	09/29/2025 12:30	WG2605695

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.06		0.651	0.855	09/30/2025 21:48	WG2608656

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.869		0.405	0.571	0.345	0.113	09/30/2025 21:48	WG2608656
(T) Barium-133	97.8					30.0-110	09/30/2025 21:48	WG2608656

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.697	J	0.553	0.592	0.906	0.282	09/22/2025 11:19	WG2603155
(T) Barium	125	C1				30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	92.1					30.0-110	09/22/2025 11:19	WG2603155

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.881	J	0.609	0.980	09/30/2025 21:48	WG2608656

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.185	J	0.256	0.348	0.374	0.118	09/30/2025 21:48	WG2608656
(T) Barium-133	87.8					30.0-110	09/30/2025 21:48	WG2608656

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.800	J	0.516	0.557	0.832	0.259	09/22/2025 11:19	WG2603155
(T) Barium	116	C1				30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	100					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.14		0.589	0.898	09/30/2025 21:48	WG2608656

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.339		0.283	0.394	0.338	0.110	09/30/2025 21:48	WG2608656
(T) Barium-133	106					30.0-110	09/30/2025 21:48	WG2608656

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.998		0.534	0.580	0.843	0.263	09/22/2025 11:19	WG2603155
(T) Barium	114	C1				30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	101					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.55		0.622	0.895	09/30/2025 21:48	WG2608656

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.548		0.319	0.453	0.302	0.0935	09/30/2025 21:48	WG2608656
(T) Barium-133	99.5					30.0-110	09/30/2025 21:48	WG2608656

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.463	J	0.500	0.532	0.838	0.261	09/22/2025 11:19	WG2603155
(T) Barium	112	C1				30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	101					30.0-110	09/22/2025 11:19	WG2603155

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.687	J	0.559	0.903	09/30/2025 21:48	WG2608656

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.224	J	0.250	0.333	0.337	0.104	09/30/2025 21:48	WG2608656
(T) Barium-133	104					30.0-110	09/30/2025 21:48	WG2608656

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.0164	<u>U</u>	0.480	0.486	0.854	0.265	09/22/2025 11:19	WG2603155
(T) Barium	109					30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	93.8					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0164	<u>U</u>	0.491	0.890	09/30/2025 21:48	WG2608656

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.00720	<u>U</u>	0.105	0.121	0.250	0.0713	09/30/2025 21:48	WG2608656
(T) Barium-133	94.4					30.0-110	09/30/2025 21:48	WG2608656

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.560	J	0.696	0.731	1.17	0.371	09/22/2025 11:19	WG2603155
(T) Barium	102					30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	95.6					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.619	J	0.714	1.20	09/30/2025 21:48	WG2608656

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0586	U	0.159	0.205	0.272	0.0873	09/30/2025 21:48	WG2608656
(T) Barium-133	96.6					30.0-110	09/30/2025 21:48	WG2608656

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.852	J	0.646	0.687	1.06	0.336	09/22/2025 11:19	WG2603155
(T) Barium	111	C1				30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	95.7					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.859	J	0.660	1.10	10/03/2025 16:09	WG2610081

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.00715	U	0.137	0.151	0.280	0.0866	10/03/2025 16:09	WG2610081
(T) Barium-133	99.9					30.0-110	10/03/2025 16:09	WG2610081

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.634	J	0.668	0.705	1.12	0.353	09/22/2025 11:19	WG2603155
(T) Barium	103					30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	106					30.0-110	09/22/2025 11:19	WG2603155

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.14	J	0.726	1.15	10/01/2025 17:27	WG2610081

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.501		0.285	0.398	0.270	0.0853	10/01/2025 17:27	WG2610081
(T) Barium-133	95.9					30.0-110	10/01/2025 17:27	WG2610081

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.0186	<u>U</u>	0.698	0.704	1.22	0.386	09/22/2025 11:19	WG2603155
(T) Barium	110					30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	100					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.000	<u>U</u>	0.717	1.28	10/01/2025 17:27	WG2610081

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.0553	<u>U</u>	0.162	0.203	0.385	0.124	10/01/2025 17:27	WG2610081
(T) Barium-133	84.8					30.0-110	10/01/2025 17:27	WG2610081

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.66		0.734	0.796	1.15	0.363	09/22/2025 11:19	WG2603155
(T) Barium	107					30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	92.7					30.0-110	09/22/2025 11:19	WG2603155

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

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.00		0.787	1.20	10/01/2025 17:27	WG2610081

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.341		0.283	0.406	0.326	0.0959	10/01/2025 17:27	WG2610081
(T) Barium-133	94.3					30.0-110	10/01/2025 17:27	WG2610081

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.551	J	0.694	0.729	1.17	0.369	09/22/2025 11:19	WG2603155
(T) Barium	135	C1				30.0-110	09/22/2025 11:19	WG2603155
(T) Yttrium	92.1					30.0-110	09/22/2025 11:19	WG2603155

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.551	J	0.717	1.25	10/01/2025 17:27	WG2610081

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.0852	U	0.181	0.233	0.427	0.143	10/01/2025 17:27	WG2610081
(T) Barium-133	88.8					30.0-110	10/01/2025 17:27	WG2610081

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4278089-1 09/22/25 11:19

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.315	<u>1</u>	0.286	0.474	0.148
(T) Barium	114	<u>C1</u>	114		
(T) Yttrium	95.9		95.9		

L1895679-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1895679-11 09/22/25 11:19 • (DUP) R4278089-5 09/22/25 11:19

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.852	0.646	1.06	0.336	1.13	0.556	0.873	0.273	27.6	0.321		20	3
(T) Barium	111				108	108							
(T) Yttrium	95.7				99.7	99.7							

Laboratory Control Sample (LCS)

(LCS) R4278089-2 09/22/25 11:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.04	101	80.0-120	
(T) Barium			116		<u>C1</u>
(T) Yttrium			95.6		

L1895349-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895349-05 09/22/25 11:19 • (MS) R4278089-3 09/22/25 11:19 • (MSD) R4278089-4 09/22/25 11:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.453	11.0	9.96	105	95.0	1	70.0-130			9.49		20
(T) Barium		103			105	102							
(T) Yttrium		98.1			94.5	98.3							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4279245-1 09/26/25 11:51

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.182	<u>J</u>	0.300	0.307	0.165
(T) Barium	93.4		93.4		
(T) Yttrium	92.5		92.5		

L1899840-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1899840-29 09/26/25 11:51 • (DUP) R4279245-5 09/26/25 11:51

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0485	0.576	0.601	0.325	0.446	0.506	0.508	0.272	161	0.519	<u>J</u>	20	3
(T) Barium	123				110	110							
(T) Yttrium	96.8				99.6	99.6							

Laboratory Control Sample (LCS)

(LCS) R4279245-2 09/26/25 11:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.59	91.8	80.0-120	
(T) Barium			129		<u>C1</u>
(T) Yttrium			99.3		

L1895349-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895349-05 09/26/25 11:51 • (MS) R4279245-3 09/26/25 11:51 • (MSD) R4279245-4 09/26/25 11:51

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.177	8.96	8.50	87.8	83.2	1	70.0-130			5.25		20
(T) Barium		102			92.3	119				<u>C1</u>			
(T) Yttrium		93.1			95.0	93.0							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4281268-1 09/29/25 12:30

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.185	<u>U</u>	0.291	0.493	
(T) Barium	107		107		
(T) Yttrium	87.9		87.9		

L1900439-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1900439-25 09/29/25 12:30 • (DUP) R4281268-5 09/29/25 12:30

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.67	0.654	1.01	0.325	1.02	0.626	1.01		48.1	0.716		20	3
(T) Barium	121				128	128					<u>C1</u>		
(T) Yttrium	96.6				100	100							

Laboratory Control Sample (LCS)

(LCS) R4281268-2 09/29/25 12:30

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.62	112	80.0-120	
(T) Barium			104		
(T) Yttrium			86.4		

L1900439-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900439-21 09/29/25 12:30 • (MS) R4281268-3 09/29/25 12:30 • (MSD) R4281268-4 09/29/25 12:30

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.40	9.68	9.24	82.8	78.4	1	70.0-130			4.66		20
(T) Barium		96.2			108	117				<u>C1</u>			
(T) Yttrium		89.8			101	99.1							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gf

8 Al

9 Sc

Method Blank (MB)

(MB) R4281732-1 09/30/25 21:48

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0117	<u>U</u>	0.0268	0.0584	
(T) Barium-133	79.7		79.7		

L1895679-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1895679-10 09/30/25 21:48 • (DUP) R4281732-5 09/30/25 21:48

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.0586	0.159	0.272	0.0873	0.137	0.189	0.276		80.1	0.317	<u>J</u>	20	3
(T) Barium-133	96.6				101	101							

Laboratory Control Sample (LCS)

(LCS) R4281732-2 09/30/25 21:48

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.31	106	80.0-120	
(T) Barium-133			79.6		

L1895679-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895679-01 09/30/25 21:48 • (MS) R4281732-3 09/30/25 21:48 • (MSD) R4281732-4 09/30/25 21:48

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.302	20.3	19.7	100	97.1	1	75.0-125			3.05		20
(T) Barium-133		74.6			98.8	98.2							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4283205-1 10/01/25 17:27

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.00213	<u>U</u>	0.0428	0.0890	0.0286
(T) Barium-133	87.6		87.6		

L1895679-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1895679-15 10/01/25 17:27 • (DUP) R4283205-5 10/01/25 17:27

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	-0.0852	0.181	0.427	0.143	0.0273	0.164	0.331	0.0973	200	0.460	<u>U</u>	20	3
(T) Barium-133	88.8				83.6	83.6							

Laboratory Control Sample (LCS)

(LCS) R4283205-2 10/01/25 17:27

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.21	104	80.0-120	
(T) Barium-133			80.6		

L1895679-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1895679-11 10/03/25 16:09 • (MS) R4283205-3 10/01/25 17:27 • (MSD) R4283205-4 10/01/25 17:27

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.00715	21.1	19.1	105	95.6	1	75.0-125			9.60		20
(T) Barium-133		99.9			103	97.8							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

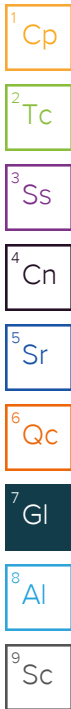
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
TPU	Total Propagated Uncertainty reported at 2 sigma (counting error plus all measurable variables).
Lc	Decision Level or Critical Level. DOE required Detection limit at a 68% confidence level.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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



ACCREDITATIONS & LOCATIONS

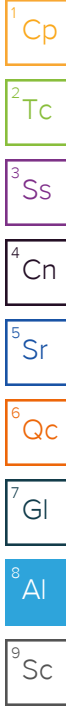
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address:
ERM - St. Louis, MO
 1968 Craig Road, Suite 100
 Saint Louis, MO 63146

Billing Information:
 Accounts Payable Dept.
 1701 Golf Road, Suite 1-1000
 Rolling Meadows, IL 60008-4242



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

Report to: **Randy Homburg 314-682-3980**
 Email To: **Randy.Homburg@erm.com; Tim.Wilson@erm.com**

Project Description: **Grand Tower Energy Center Groundwater 2Q25**
 City/State Collected: **Grand Tower, IL**
 Please Circle: PT MT **DET**

Regulatory Program(DOD,RCRA,DW,etc):
 Client Project # **0599247**
 Lab Project # **ERMSCMO-0599247**

Collected by (print): **Marshall Arendell**
 Site/Facility ID #
 P.O. #

Collected by (signature): **Marshall Arendell**
Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day STD TAT
 Date Results Needed
 No. of Cntrs

Immediately Packed on Ice N Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	RA-226 1L-HDPE-Add-HNO3	RA-228 1L-HDPE-Add-HNO3											
APW-03-WG-2025 0903	Grab	NPW		9/3/2025	1430	3	X	X											
APW-08-WG-2025 0905		NPW		9/5/2025	0835	3	X	X											
APW-07-WG-2025 0904		NPW		9/4/2025	1635	3	X	X											
APW-10S-WG-2025 0903		NPW		9/3/2025	1645	3	X	X											
APW-10D-WG-2025 0903		NPW		9/3/2025	1555	3	X	X											
APW-06S-WG-2025 0904		NPW		9/4/2025	1655	3	X	X											
APW-06D-WG-2025 0904		NPW		9/4/2025	0955	3	X	X											
APW-05R-WG-2025 0904		NPW		9/4/2025	1230	3	X	X											
APW-09-WG-2025 0905		NPW		9/5/2025	0930	3	X	X											
APW-02-WG-2025 09024		NPW		9/4/2025	1330	3	X	X											

SDG # **L15095079**

F016

Acctnum: **ERMSCMO**
 Template: **T243472**
 Prelogin: **P1175082**
 PM: **206 - Jeff Carr**
 PB:

Shipped Via: **FedEX Ground**
 Remarks Sample # (lab only)

0903
 0905
 0904
 0903
 0905
 0904
 0904
 0905
 0904
 0905
 09024

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS _____ FedEx _____ Courier _____
 Tracking # _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
COC Signed/Accurate:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Bottles arrive intact:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Correct bottles used:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Sufficient volume sent:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
If Applicable	
VOA Zero Headspace:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Preservation Correct/Checked:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
RAD Screen <0.5 mR/hr:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

Relinquished by: (Signature) **Marshall Arendell** Date: **9/5/25** Time: **1200**
 Received by: (Signature) **John [Signature]**
 Trip Blank Received: Yes/No No
 HCL / MeOH TBR
 Temp: _____ °C Bottles Received: **45**

Relinquished by: (Signature) **[Signature]** Date: _____ Time: _____
 Received by: (Signature) _____
 Temp: _____ °C Bottles Received: _____

Relinquished by: (Signature) _____ Date: _____ Time: _____
 Received for lab by: (Signature) **C. Roberts** Date: **09.06.25** Time: **0900**
 Hold: _____ Conditions: **NCF / OK**

