



ERM

1968 Craig Road
Suite 100
St. Louis, Missouri
63146

T +1 314 733 4490
F +1 314 754 8121

erm.com

Illinois Environmental Protection Agency
BOW-Permits #15-CCR Coordinator
2520 W Iles Avenue
P.O. Box 19276
Springfield, IL 62794-9276

DATE

23 January 2026

SUBJECT

Fifteenth Post-Closure Groundwater
Monitoring Report
Fourth Quarter 2025
Grand Tower Energy Center
Closed Coal Combustion Residuals
Impoundment
1820 Power Plant Road
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 fourth quarter 2025 at the GTEC facility located at 1820 Power Plant Road, Grand Tower, IL (the "Site"). The fourth quarter groundwater sampling event took place between 19 November and 20 November 2025, and the closed impoundment inspection event was conducted on 20 November 2025. A Site location map is provided in Figure 1.

The fourth 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.

Fourth 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 fourth 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 fourth 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. All monitoring wells were observed to be intact during the quarterly monitoring well inspections. 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 fourth 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 fourth 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 fourth 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 OPA 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
- Boron
- Chloride
- Chromium
- Cobalt
- Fluoride
- Lead
- Mercury
- Molybdenum
- pH
- Selenium
- Sulfate
- TDS
- Radium 226/228
- Calcium
- Turbidity

- Cadmium
- Lithium
- Thallium

GROUNDWATER ANALYTICAL RESULTS

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

- Arsenic: APW-10S
- Boron: APW-02, APW-03, APW-05R, APW-06D, APW-06S
- Calcium: APW-02, APW-03, APW-04, APW-05R, APW-06D, APW-06S, APW-07, APW-08, APW-10D, APW-10S
- Lithium: APW-02, APW-06S
- Molybdenum: APW-02, 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 concentrations 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, calcium, 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 on 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).

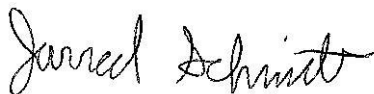
SUMMARY AND CONCLUSIONS

Based upon the results of the fourth 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 14 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 14 post groundwater monitoring events, boron concentrations have shown a decreasing trend in Site monitoring wells.
- During the Q4 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) 733-4490.

Sincerely,



Jarred Schmidt
Principal Consultant



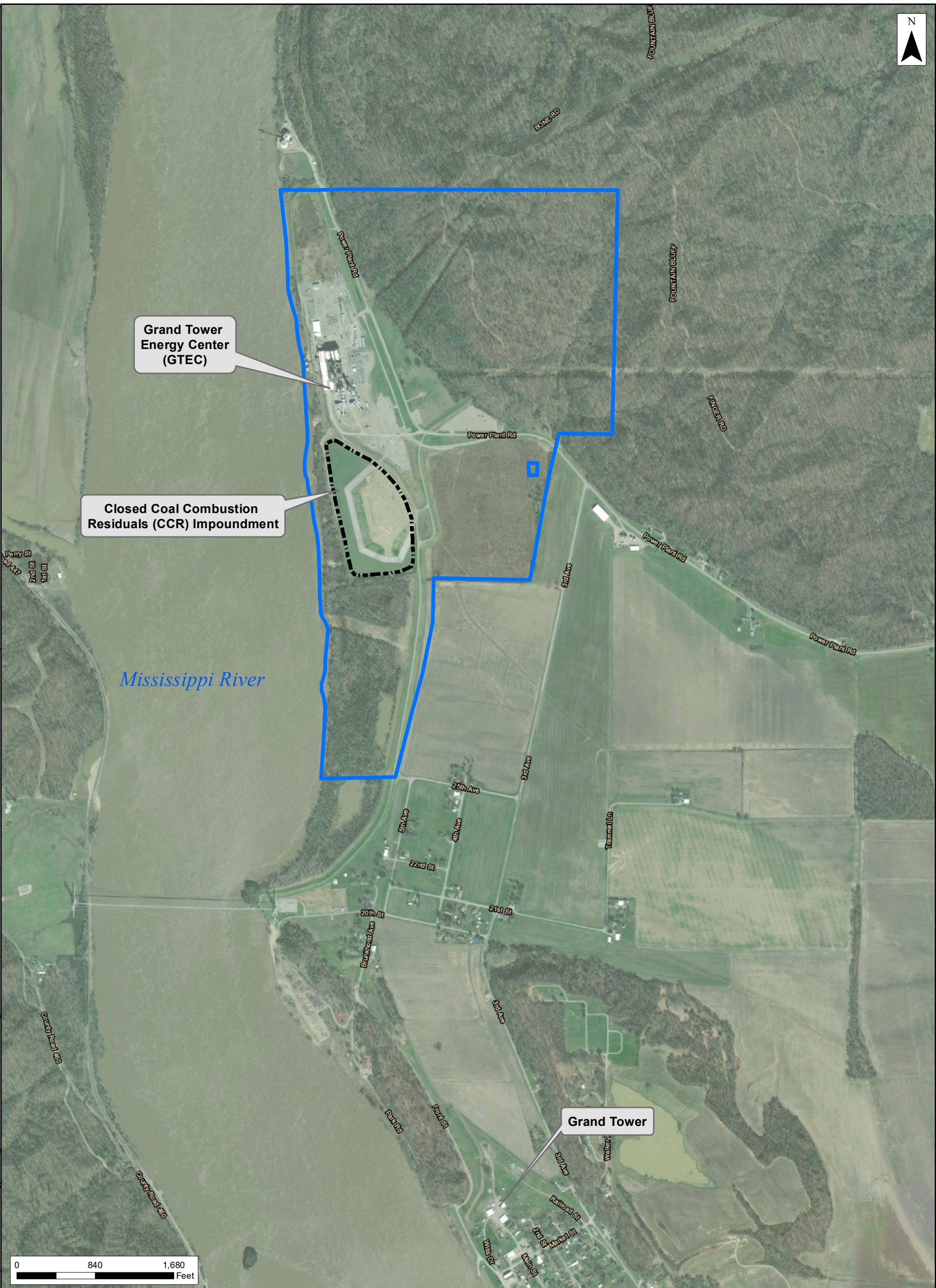
Wayne T. Sicora, P.E.
Principal Engineer

Attachments

cc: Mr. Brandon Stempa, Perdomo Worldwide - Grand Tower Energy Center (electronic)

FIGURES

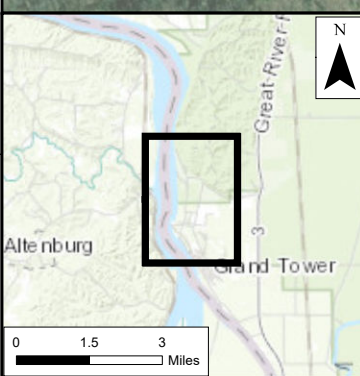
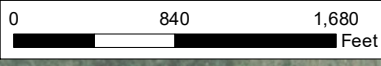
FILE: \\usbd\dfs02\data\Philadelphia\Team\DM\GIS\Projects\Grand Tower Energy Center\ MXD\FIGURE1-SITELLOCATIONMAP_20221003.mxd | REVISED: 10/03/2022 | SCALE: 1:12,000 when printed at 11x17



Grand Tower Energy Center (GTEC)

Closed Coal Combustion Residuals (CCR) Impoundment

Grand Tower



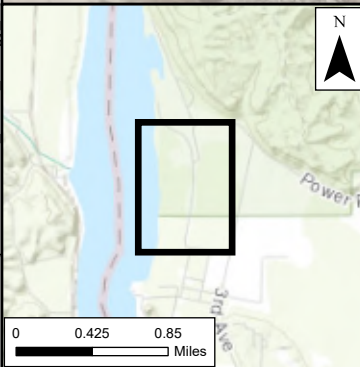
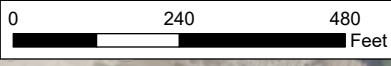
- Legend**
- Closed Coal Combustion Residuals (CCR) Impoundment
 - Approximate Parcel Boundary

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 = 328.50 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 - November 19, 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: Fourth 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 (GTCE)
Grand Tower, US-IL

Parameter/Analyte	Total or Dissolved	Units	Sampled prior to closure of CCR Impoundment										Post-Closure Sampling																						
			Sample ID		APW-5-20170907		APW-5-20170928		APW-5-20171019		APW-5-20171128		APW-5-20180118		APW-5-20180207		DUP-001-WG-20220616		DUP-001-WG-20220616		APW-05-WG-20220914		DUP-001-WG-20220914		APW-05-WG-20221128		DUP-01-WG-20221128		APW-05-WG-20230216		DUP-01-WG-20230216				
			Location ID	Sample Date	APW-05 09/06/2017	APW-05 09/28/2017	APW-05 10/19/2017	APW-05 11/09/2017	APW-05 11/28/2017	APW-05 12/17/2017	APW-05 01/18/2018	APW-05 02/07/2018	APW-05 06/14/2022	APW-05 06/16/2022	APW-05 09/14/2022	APW-05 09/14/2022	APW-05 09/14/2022	APW-05 11/28/2022	APW-05 11/28/2022	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023	APW-05 02/01/2023				
UNSPECIFIED																																			
Fluoride	N	mg/L	4	0.34	0.34	0.32	0.32	0.32	0.31	0.36	0.32	0.35	0.31	0.31	0.31	0.37	0.38	0.33	0.33																
Radium-226	N	pCi/L	NS	0.37 ± 0.14 U	0.19 ± 0.1 U	0.133 ± 0.070	0.48 ± 0.15 U		0.35 ± 0.12 U	0.14 ± 0.1 U	0.26 ± 0.13 U	0.649 ± 0.316	0.299 ± 0.277	0.17 ± 0.08 U	0.11 ± 0.07 U	0.17 ± 0.08 U	0.209 ± 0.245 J	0.205 ± 0.241 J																	
Radium-228	N	pCi/L	NS	1.07 ± 0.9	0.82 ± 0.93 J	0.661 ± 0.818	1.17 ± 0.93 J		0.49 ± 0.25 U	1.08 ± 0.96	0.31 ± 0.43 J	1.14 ± 0.99	0.211 ± 0.31	0.82 ± 0.88 U	0.27 ± 0.38 U	0.49 ± 0.81 U	1.24 ± 0.71	0.309 ± 0.429 J	0.284 ± 0.293 J																
Sulfate	N	mg/L	NS	407	496	399	411	381	394	439	378	224	379	403	324	338	325	305																	
Radium-226/228	N	pCi/L	7.002	1.44 ± 0.94 U	1.08 ± 0.65 U	0.794 ± 0.78	1.65 ± 0.88 U		0.84 ± 0.54 U	1.17 ± 0.86 U	0.61 ± 0.93 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																																			
Temperature, Field	N	NTU	17.86									51.8				9.19		9.21																	
ISEN CHEM																																			
Chloride	N	mg/L	200	15	15	15	14	16	16	16	16	16	16	16	16	15	15	16	18	18															
Dissolved Solids, Total	N	mg/L	1300	842	832	804	826	796	792	852	884	650	696	750	774	774	714	728	696	670															
pH	N	pH units	6.22-9.02 ²	7.37	7.3	7.26	7.5	7.26	7.51	7.23	7.18	7.35	7.49	7.52	7.57	7.54	7.37	7.31	7.33																
METALS																																			
Antimony	D	mg/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	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	mg/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	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Barium	D	mg/L	2	0.003	0.0026	0.0015	0.0016	0.0016	0.0019	0.0021	0.0019	0.0048	0.0041	0.0033	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	
Beryllium	D	mg/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	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	mg/L	2	0.3	10.3	8.9	9.8	9.1	8.3	9.5	8.73	7.67	8.24	7.26	7.62	7.48	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	7.42	
Calcium	D	mg/L	103.2	136	142	119	131	123	125	121	124	139	141	119	131	87.4	115	106.5	111	114															
Chromium	D	mg/L	0.1	0.0137	0.001 U	0.0041	0.001 U	0.001 U	0.0084	0.0033	0.001 U	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	
Cobalt	D	mg/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	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	
Copper	D	mg/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	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	D	mg/L	NS	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	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	mg/L	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	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	mg/L	0.04	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	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	
Manganese	D	mg/L	NS	0.006	0.0044	0.0091	0.0066	0.0045	0.0062	0.0066	0.0066	0.0097	0.0031	0.006	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
Mercury	D	mg/L	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	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	0.0002 U	
Molybdenum	D	mg/L	0.1	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	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	
Nickel	D	mg/L	NS	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	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	D	mg/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	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	mg/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	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	
Thorium	D	mg/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	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
 mg/L = milligrams per liter
 pCi/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 = RFD outside accepted recovery limits
 U = Not Detected at the Reporting Limit
 TB = Sample received past/due to holding time expiration

1 Standard is from the Upper Tolerance Limit (UTL) calculated from background well APW-01R concentrations from 8 quarterly sampling events from 2017-2018
 2 Standard value 6.22 is from the Lower Tolerance Limit (LL) calculated from background well APW-01R concentrations from 8 quarterly sampling events from 2017-2018 and 9.0 is the regulatory standard
 3 Eight episodes of groundwater sampling were conducted from September 2017 through February 2018 to establish background concentrations for the Site utilizing data from background wells APW-1R and APW-9. The final Groundwater Protection Standards (GPS) are the higher of the values provided in 35 IAC 845.600(a) and the final background concentrations as found in Table 6 of the 07/25/2019 GMZ Application with the exception of turbidity and pH. Radium 226+228 was the only value taken from Table 6.
 Highlighted values exceed action level
 NS = No standard

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

Parameter/Analyte	Total or Dissolved	Sampling event by cleanup of CCS Implementation																Final Cleanup Sampling																												
		Sample ID		APW-8-2017007		APW-8-2017008		APW-8-2017010		APW-8-2017110		APW-8-2017117		APW-8-2017127		APW-8-2018011		APW-8-2018028		APW-8-WG-2022014		APW-8-WG-2022015		APW-8-WG-2022110		APW-8-WG-2022015		APW-8-WG-2022015		APW-8-WG-2022015		APW-8-WG-2024011		APW-8-WG-2024014		APW-8-WG-2024014		APW-8-WG-2024014		APW-8-WG-2024014		APW-8-WG-2024014				
		APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	APW-08	
UNDETECTED																																														
Chloride	%	mg/L	4	0.3	0.3	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28			
Fluoride	%	mg/L	NS	0.27 ± 0.17 U	0.14 ± 0.08 U	0.2 ± 0.20 U	0.13 ± 0.11 U	0.35 ± 0.16 U	0.14 ± 0.09 U	0.21 ± 0.11 U	0.39 ± 0.15 U	0.208 ± 0.20 U	0.27 ± 0.11 U	0.4 ± 0.11 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U	0.247 ± 0.24 U	0.3 ± 0.12 U	0.21 ± 0.09 U	0.3 ± 0.12 U
Iron	%	mg/L	NS	1.13 ± 0.53 U	0.78 ± 0.43 U	1.1 ± 0.50 U	0.77 ± 0.33 U	1.1 ± 0.50 U	0.74 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U	1.07 ± 0.53 U	0.70 ± 0.33 U	0.82 ± 0.43 U
Sulfate	%	mg/L	400	43	40	38	40	39	39	39	37	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39		
CAIC																																														
Fluoride	%	mg/L	7.002	1.85 ± 0.25 U	1.4 ± 0.36 U	1.5 ± 1.41	0.48 ± 0.35 U	1.12 ± 0.51 U	1.48 ± 0.66 U	0.85 ± 0.6 U	0.88 ± 0.58 U	0.735 ± 0.325	1.13 ± 0.72 U	2.08 ± 0.9	0.247 ± 0.173 U	0.45 ± 0.22 U	1.04 ± 0.48 U	0.23 ± 0.15 U	2.18 ± 0.907	0.341 ± 0.261 U	1.25 ± 0.332	1.04 ± 0.457	1.48 ± 0.550	0.808 ± 0.376 U	1.22 ± 0.409	1.3 ± 0.543																				
FIELD PARAMETERS																																														
Temperature	%	NTU	17.96 ¹											1.19	1.06	1.05	1.05	1.02	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Conductivity	%	mg/L	200	9	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
Dissolved Oxygen	%	mg/L	100	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68			
pH	%	mg/L	4-24.00 ²	7.64	7.67	7	7.12	7.25	7.41	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84	7.84			
ANIONS																																														
Acetate	%	mg/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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U			
Ammonia	%	mg/L	0.001	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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U			
Barium	%	mg/L	0.001	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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U				
Beryllium	%	mg/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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U				
Bromine	%	mg/L	0.001	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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U					
Calcium	%	mg/L	100	97.4	100	97.6	101	102	98.6	95	97.8	91.3	85.1	82.8	76.4	94.9	89.4	81.2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8					
Chloride	%	mg/L	200	9	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11					
Chromium	%	mg/L	0.1	0.0018	0.0023	0.001 U	0.0009	0.001 U	0.0021	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	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						
Cobalt	%	mg/L	0.001	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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U						
Copper	%	mg/L	0.006	0.0017	0.0011	0.001	0.0012	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	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	0.001 U						
Iron	%	mg/L	NS																																											
Lead	%	mg/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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U						
Lithium	%	mg/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	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	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U						
Magnesium	%	mg/L	NS	0.006	0.007	0.0016	0.004	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016					
Manganese	%	mg/L	NS																																											
Mercury	%	mg/L	0.002	0.0002 U	0.0002 U	0.0002 U																																								

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

Parameter/Analyte	Total or Dissolved	Units	Sampling events in vicinity of C&S Interceptors												Pilot Capacity Scenario																							
			APW-105-2011001 APW-105-06/01/2017	APW-105-2011002 APW-105-09/12/2017	APW-105-2011003 APW-105-10/19/2017	APW-105-2011101 APW-105-11/29/2017	APW-105-2011102 APW-105-12/18/2017	APW-105-2011103 APW-105-01/08/2018	APW-105-2011201 APW-105-02/09/2018	APW-105-2012001 APW-105-06/19/2018	APW-105-2012002 APW-105-06/19/2018	APW-105-2012003 APW-105-11/29/2018	APW-105-2012004 APW-105-06/19/2018	APW-105-2012005 APW-105-06/19/2018	APW-105-2012006 APW-105-06/19/2018	APW-105-2012007 APW-105-06/19/2018	APW-105-2012008 APW-105-06/19/2018	APW-105-2012009 APW-105-06/19/2018	APW-105-2012010 APW-105-06/19/2018	APW-105-2012011 APW-105-06/19/2018	APW-105-2012012 APW-105-06/19/2018	APW-105-2012013 APW-105-06/19/2018	APW-105-2012014 APW-105-06/19/2018	APW-105-2012015 APW-105-06/19/2018	APW-105-2012016 APW-105-06/19/2018	APW-105-2012017 APW-105-06/19/2018	APW-105-2012018 APW-105-06/19/2018	APW-105-2012019 APW-105-06/19/2018	APW-105-2012020 APW-105-06/19/2018	APW-105-2012021 APW-105-06/19/2018								
FIELD PARAM																																						
Chloride	As	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
GEN CHEM																																						
Ammonia	As	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		
METALS																																						
Aluminum	As	mg/L	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
Barium	As	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Boron	As	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Calcium	As	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Chloride	As	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Copper	As	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Iron	As	mg/L	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Lead	As	mg/L	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	
Magnesium	As	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Manganese	As	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Nitrate	As	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Phosphate	As	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Sulfate	As	mg/L	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Zinc	As	mg/L	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

Notes:
 Analyte = not analyzed
 N = Normal Environmental Sample
 FD = Field Duplicate Sample
 NA = not available
 * = field
 D = Detected
 mg/L = milligrams per liter
 µg/L = micrograms per liter
 NTU = nephelometric turbidity units
 H = Hydrogen times exceeded
 L = Analyte detected below quantitation limits
 S = The associated batch OC was outside the established quality control range for detection
 SC = The sample matrix interfered with the ability to make an accurate determination; sample value is low
 S = Solids Recovery outside recovery limits
 H = HPC (colony) exceeded recovery limits
 U = Not Detected at the Receptor Limit
 R = Sample received multiple days to building time extension
 1 Standard is from the Upper Tolerance Limit (UTL) calculated from background well APW-02R concentrations from 8 quarterly sampling events from 2017-2018
 2 Standard value 6.22 is from the Lower Tolerance Limit (LL) calculated from background well APW-02R concentrations from 8 quarterly sampling events from 2017-2018 and 9.0 is the regulatory standard
 3 Four episodes of groundwater sampling were conducted from September 2017 through February 2018 to establish background concentrations for the site. The data from background wells APW-10, APW-18, and APW-9. The final Groundwater Protection Standards (GPS) are the higher of the values provided in 35 IAC 845.600(a) and the final background concentrations as found in Table 6 of the 07/25/2019 OHM Association with the exception of turbidity and opt. Radium 226-228 was the only value taken from Table 6.
 HPC values exceed action level
 N/A = No standard

APPENDIX A FOURTH QUARTER 2025 CCR IMPOUNDMENT INSPECTION REPORT



**Grand Tower Energy Center
Closed CCR Impoundment
Quarterly Inspection Form**

Date: 11/20/2025
Time: 12:47-13:06
Name: Marshall Arendell
(Inspector)

Weather:

Temperature:

53 deg. F

- Sunny
- Cloudy
- Raining
- Other

Observations:

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

Conditions Limiting Visibility:

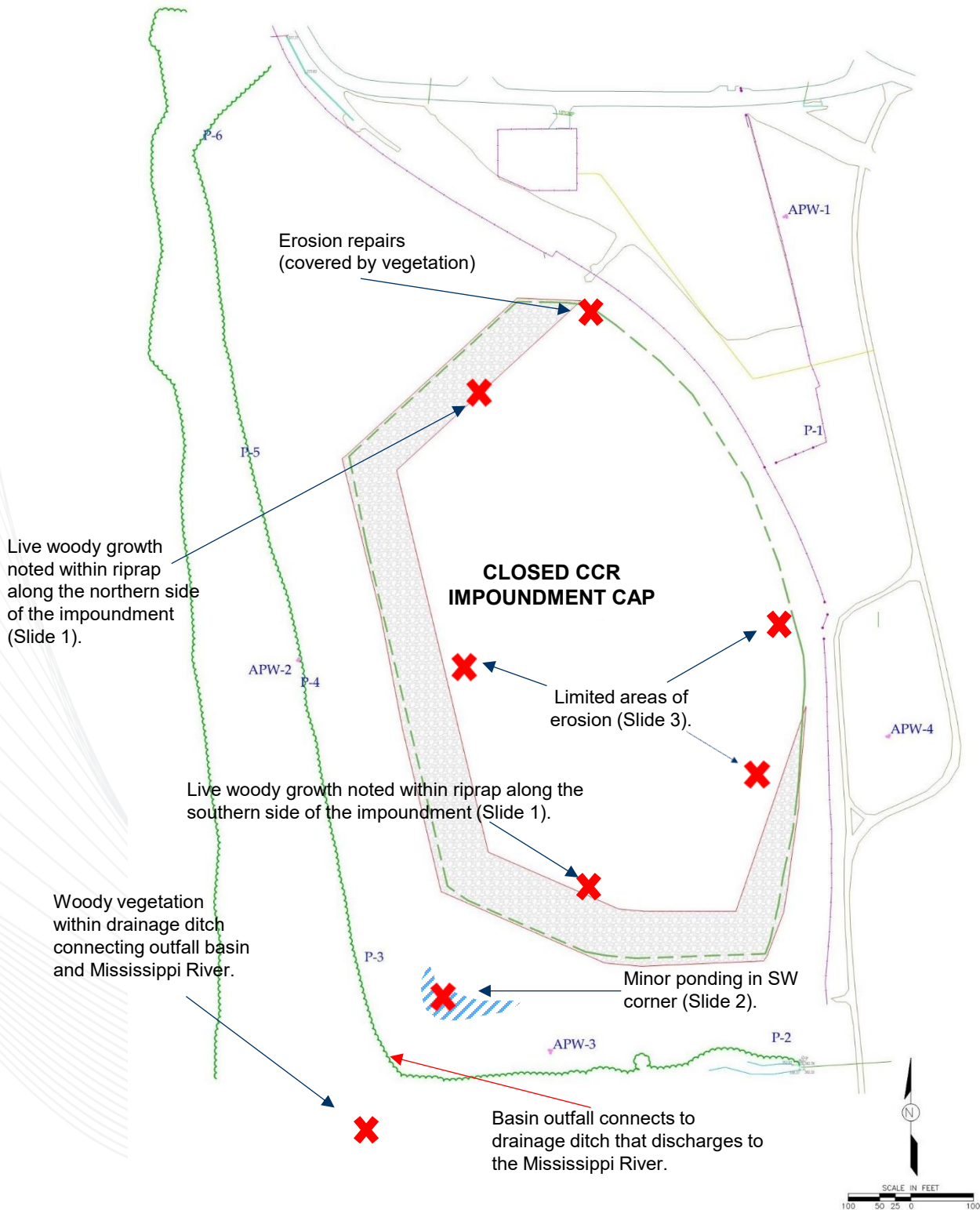
- Snow Cover
- Vegetation
- None
- Other

Observations in Detail Below:

- ERM onsite for the November inspection of the CCR impoundment and 4Q25 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 2026.
- 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



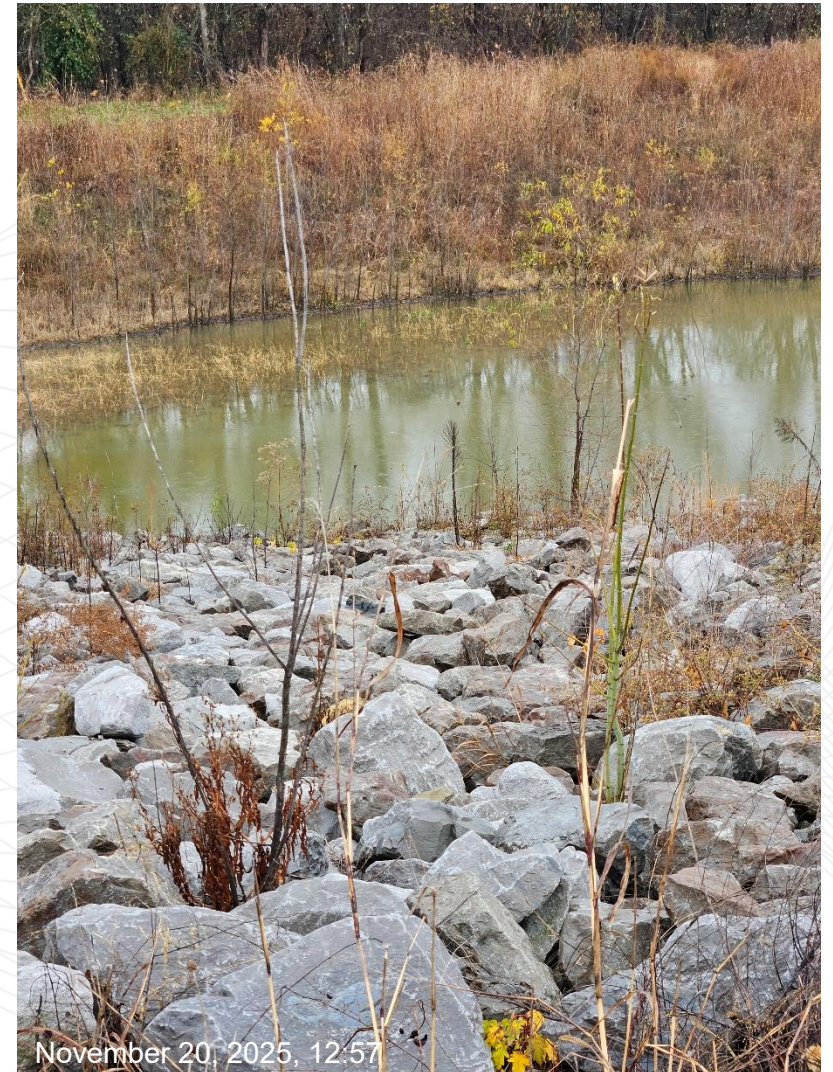
Grand Tower Energy Center Q4 2025 Closed CCR Impoundment Cap Inspection

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.

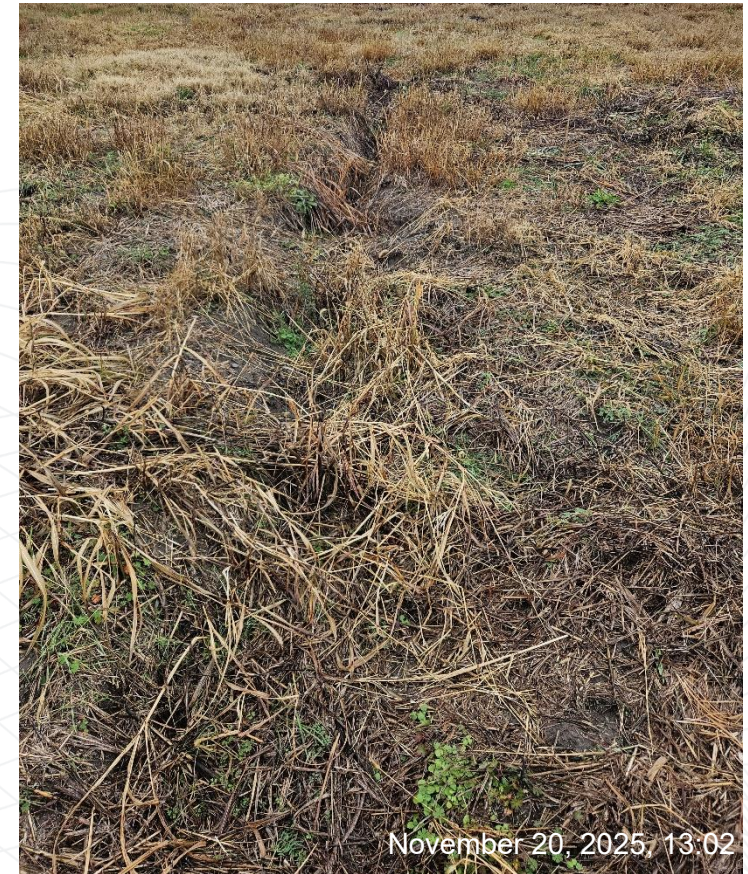
Minor Erosional Channels



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 2025
GROUNDWATER MONITORING WELL
INSPECTION FORMS

Well Inspection Worksheet

Grand Tower Energy Center

Grand Tower, IL

Well ID: APW-01R Date: 11/19/2025
Total Depth (Actual): 58.30 (BTOC) Time: 1015
Total Depth (Measured): 59.19 (BTOC) Collection Order: 8
Depth to Water (Measured): 35.88 (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: 11/19/2025
Total Depth (Actual): 58.75 (BTOC) Time: 938
Total Depth (Measured): 57.7 (BTOC) Collection Order: 3
Depth to Water (Measured): 30.5 (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: No
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: 11/19/2025
Total Depth (Actual): 59.65 (BTOC) Time: 1020
Total Depth (Measured): 59.41 (BTOC) Collection Order: 9
Depth to Water (Measured): 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:

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: 11/1/1925
Total Depth (Actual): 60.40 (BTOC) Time: 1010
Total Depth (Measured): 60.65 (BTOC) Collection Order: 7
Depth to Water (Measured): 36.60 (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: 11/19/2025
Total Depth (Actual): 56.90 (BTOC) Time: 940
Total Depth (Measured): 62.75 (BTOC) Collection Order: 4
Depth to Water (Measured): 34.21 (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: No
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: 11/19/2025
Total Depth (Actual): 63.98 (BTOC) Time: 930
Total Depth (Measured): 63.72 (BTOC) Collection Order: 1
Depth to Water (Measured): 36.33 (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: 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: No
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: 11/19/2025
Total Depth (Actual): 152.57 (BTOC) Time: 1030
Total Depth (Measured): 154.55 (BTOC) Collection Order: 2
Depth to Water (Measured): 33.25 (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: 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: No
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: 11/19/2025
Total Depth (Actual): 63.35 (BTOC) Time: 1025
Total Depth (Measured): 63.18 (BTOC) Collection Order: 10
Depth to Water (Measured): 30.31 (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: 11/19/2025
Total Depth (Actual): 61.89 (BTOC) Time: 1030
Total Depth (Measured): 63.6 (BTOC) Collection Order: 11
Depth to Water (Measured): 35.46 (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: 11/19/2025
Total Depth (Actual): 63.40 (BTOC) Time: 1130
Total Depth (Measured): 63.12 (BTOC) Collection Order: 12
Depth to Water (Measured): 35.64 (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: 11/19/2025
Total Depth (Actual): 62.84 (BTOC) Time: 1153
Total Depth (Measured): 62.64 (BTOC) Collection Order: 6
Depth to Water (Measured): 29.42 (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: 11/19/2025
Total Depth (Actual): 98.19 (BTOC) Time: 1156
Total Depth (Measured): 98.00 (BTOC) Collection Order: 5
Depth to Water (Measured): 27.96 (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 2025 FIELD DATA FORMS

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-1R

Development
 Purging

Date: 11/20/2025 Time Start: 1053 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 59.19
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 35.88
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-01R-WG-20251120 Date/Time: 11/20/25 / 1120
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1053			500	54.19	35.92	-	initial	6.32	427.6	14.5	13.60	51.7	230.0	Cloudy, no odor
1056			500	54.19	35.92	0.25	0.3	6.33	463.9	15.5	6.90	44.00	216.0	Cloudy, no odor
1059			500	54.19	35.92	0.25	0.5	6.38	497.9	15.7	3.10	39.00	175.0	Cloudy, no odor
1103			500	54.19	35.92	0.25	0.8	6.44	523.3	15.8	1.70	32.60	121.0	Cloudy, no odor
1106			500	54.19	35.92	0.25	1.0	6.44	527.9	15.8	1.60	32.00	48.8	Cloudy, no odor
1109			500	54.19	35.92	0.25	1.3	6.47	535.3	15.8	1.50	29.50	49.1	Clear, no odor
1112			500	54.19	35.92	0.25	1.5	6.47	542.6	15.8	1.40	28.50	48.2	Clear, no odor
1115			500	54.19	35.92	0.25	1.8	6.50	547.1	15.8	1.4	28.1	47.8	Clear, no odor

Comments/Well Condition: Final DTW: 35.92

Signature (s) *M. Arendell* Date 11/20/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-2

Development
 Purging

Date: 11/19/2025 Time Start: 1335 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 57.70
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 34.10
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI _____ Pro Plus _____
 Solinst _____ Water Level Meter _____
 Other: _____ HACH Turbidity Meter _____

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-02-WG-20251119 Date/Time: 11/19/25 / 1355
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				Increment	Cumulative							
1335			200	52.7	38.90	-	initial	7.36	1010	14.3	0.90	-11.9	88.0	Clear, rotten egg-like odor
1338			200	52.7	40.65	0.1	0.1	7.28	1043	15.7	0.10	-47.7	71.9	Clear, rotten egg-like odor
1341			200	52.7	41.46	0.1	0.2	7.29	1040	15.8	0.10	-50.3	74.2	Clear, rotten egg-like odor
1344			200	52.7	41.90	0.1	0.3	7.27	1039	15.8	0.30	-52.3	73.4	Clear, rotten egg-like odor
1347			200	52.7	42.91	0.1	0.4	7.29	1035	16.3	0.10	-54.5	73.7	Clear, rotten egg-like odor
1350			200	52.7	43.30	0.1	0.5	7.28	1034	16.4	0.10	-55.4	72.4	Clear, rotten egg-like odor
1353			200	52.7	43.45	0.1	0.6	7.29	1036	16.5	0.10	-55.7	72.0	Clear, rotten egg-like odor

Comments/Well Condition: Final DTW: 43.5

Signature (s) *M. Arendell* Date 11/20/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-3

Development
 Purging

Date: 11/20/2025 Time Start: 0915 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 59.41
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 35.00
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-03-WG-20251120 Date/Time: 11/20/25 / 0940
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
0917			400	54.41	35.00	-	initial	8.16	687	13.8	1.00	-16.1	97.60	Clear, no odor
920			400	54.41	36.00	0.5	0.5	8.16	696	14.6	0.70	-19.9	87.20	Clear, no odor
923			400	54.41	37.00	0.5	1.0	8.12	686	15.0	0.80	-19.9	39.50	Clear, no odor
926			400	54.41	38.00	0.5	1.5	8.15	686	15.1	0.80	-22.7	23.20	Clear, no odor
929			400	54.41	39.00	0.5	2.0	8.15	689	15.2	0.60	-23.6	13.40	Clear, no odor
932			400	54.41	40.00	0.5	2.5	8.14	691	15.2	0.50	-23.6	14.00	Clear, no odor
935			400	54.41	41.00	0.5	3.0	8.12	694.000	15.2	0.50	-23.00	12.6	Clear, no odor

Comments/Well Condition: Final DTW: 35.0

Signature (s) *M. Arendell* Date 11/20/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-4

Development
 Purging

Date: 11/19/2025 Time Start: 1626 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 60.65
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 36.60
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI _____ Pro Plus _____
 Solinst _____ Water Level Meter _____
 Other: _____ HACH Turbidity Meter _____

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-04-WG-20251119 Date/Time: 11/19/25; 1650
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1626			300	55.65	36.65	-	initial	7.28	611	14.6	1.10	10.9	39.7	Clear, no odor
1629			300	55.65	36.65	0.25	0.3	7.22	611	14.9	0.60	9.9	101.0	Cloudy, no odor
1632			300	55.65	36.65	0.25	0.5	7.21	631	15.4	0.50	7.6	87.1	Cloudy, no odor
1635			300	55.65	36.65	0.25	0.8	7.20	639	15.5	0.50	6.6	70.5	Clear, no odor
1638			300	55.65	36.65	0.25	1.0	7.21	661	15.5	0.40	5.3	56.0	Clear, no odor
1641			300	55.65	36.65	0.25	1.3	7.21	662	15.6	0.40	4.4	53.4	Clear, no odor
1644			300	55.65	36.65	0.25	1.5	7.21	663.000	15.6	0.40	4.20	51.3	Clear, no odor

Comments/Well Condition: Final DTW: 36.65

Signature (s) *M. Arendell* Date 11/19/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-5R

Development
 Purging

Date: 11/19/2025 Time Start: 1238 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 62.75
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 34.21
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-05R-WG-20251119 Date/Time: 11/19/25 / 1310
 Analysis: _____
 QA/QC Samples: DUP-001-WG-20251119 0001

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1238			500	57.75	34.21	-	initial	7.39	936	15.0	0.20	-23.5	522.0	Cloudy, rotten egg
1241			500	57.75	34.21	0.25	0.3	7.43	919	15.3	0.10	-35.70	464.0	Cloudy, rotten egg
1244			450	57.75	34.21	0.25	0.5	7.44	929	15.9	0.10	-46.00	208.0	Cloudy, rotten egg
1247			450	57.75	34.21	0.25	0.8	7.44	939	16.2	3.70	-54.30	130.0	Cloudy, rotten egg
1250			450	57.75	34.21	0.25	1.0	7.44	949	16.3	2.70	-58.50	90.2	Cloudy, rotten egg
1253			450	57.75	34.21	0.25	1.3	7.44	954	16.3	1.70	-62.30	48.2	Clear; rotten egg
1256			450	57.75	34.21	0.25	1.5	7.44	957	16.4	1.50	-65.40	51.1	Clear, rotten egg
1259			450	57.75	34.21	0.25	1.8	7.45	961	16.4	0.5	-69.2	34.5	Clear; rotten egg
1301			450	57.75	34.21	0.25	2.0	7.45	962	16.4	0.5	-69.6	33.3	Clear, rotten egg
1304			450	57.75	34.21	0.25	2.3	7.44	962	16.4	0.5	-69.3	32.8	Clear; rotten egg

Comments/Well Condition: Final DTW: 22.62

Signature (s) *M. Arendell* Date 11/19/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-6S

Development
 Purging

Date: 11/19/2025 Time Start: 1140 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 63.72
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 33.42
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-06S-WG-20251119 Date/Time: 11/19/25 / 1205
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1140			500	58.72	33.42	-	initial	7.11	959	14.5	1.10	-29.9	50.9	Cloudy, no odor
1143			500	58.72	33.42	0.25	0.3	7.15	975	14.6	0.90	-42.7	118	Cloudy, no odor
1146			500	58.72	33.42	0.25	0.5	7.20	996	14.9	0.70	-53.9	205	Cloudy, no odor
1149			500	58.72	33.42	0.25	0.8	7.22	999	1.5	0.80	-60.1	178	Cloudy, no odor
1152			500	58.72	33.42	0.25	1.0	7.23	1002	15.5	0.60	-65.5	118.0	Cloudy, no odor
1155			500	58.72	33.42	0.25	1.3	7.23	1001	16.1	0.60	-67.8	86.9	Clear, no odor
1158			500	58.72	33.42	0.25	1.5	7.23	1001	16.5	0.60	-71.4	88.0	Clear, no odor
1202			500	58.72	33.42	0.25	1.8	7.23	1002	16.6	0.60	-72.6	87	Clear, no odor

Comments/Well Condition: Final DTW: 33.45

Signature (s) *M. Arendell* Date 11/19/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-6D

Development
 Purging

Date: 11/19/2025 Time Start: 1055 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 156.44
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 21.74
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI _____ Pro Plus _____
 Solinst _____ Water Level Meter _____
 Other: _____ HACH Turbidity Meter _____

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-06D-WG-20251119 Date/Time: 11/19/2025
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1055			400	149.55	33.34	-	initial	7.28	770	14.8	61.00	-15.3	4.8	Clear, rotten egg-like odor
1058			400	149.55	33.34	0.25	0.3	7.28	776	14.8	43.00	-19.0	4.5	Clear, rotten egg-like odor
1101			400	149.55	33.34	0.25	0.5	7.28	766	14.9	28.00	-23.6	2.0	Clear, rotten egg-like odor
1104			400	149.55	33.34	0.25	0.8	7.29	766	15.0	22.00	-27.0	1.7	Clear, rotten egg-like odor
1107			400	149.55	33.34	0.25	1.0	7.30	765	15.1	15.00	-30.0	1.8	Clear, rotten egg-like odor
1110			400	149.55	33.34	0.25	1.3	7.31	770	15.3	1.20	-34.1	1.2	Clear, rotten egg-like odor
1113			400	149.55	33.34	0.25	1.5	7.31	769	15.3	1.30	-35.7	1.2	Clear, rotten egg-like odor
1116			400	149.55	33.34	0.25	1.8	7.31	766	15.3	1.4	-37.5	1.12	Clear, rotten egg-like odor

Comments/Well Condition: From 1055 to 1107 DO reading in %; from 1110 on in mg/L. Final DTW: 21.75

Signature (s) *M. Arendell* Date 11/19/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-7

Development
 Purging

Date: 11/20/2025 Time Start: 0820 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-.1632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 63.18
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 19.05
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-07-WG-20251120 Date/Time: 11/20/25 / 0845
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				Increment	Cumulative							
0820			400	58.18	30.51	-	initial	6.87	1216	14.1	11.10	13.5	57.8	Clear, no odor
823			400	58.18	30.51	0.5	0.5	6.91	1210	14.9	3.00	3.9	56.8	Clear; rotten egg
0826			400	58.18	30.51	0.5	1.0	6.93	1228	15.2	2.70	-11.4	38.9	Clear, rotten egg
829			400	58.18	30.51	0.5	1.5	6.94	1249	15.2	3.60	-13.8	18.2	Clear; rotten egg
0832			400	58.18	30.51	0.5	2.0	6.92	1238	15.6	3.00	-15.9	15.9	Clear, rotten egg
835			400	58.18	30.51	0.5	2.5	6.94	1235	15.6	2.80	-15.8	16.0	Clear; rotten egg
0838			400	58.18	30.51	0.5	3.0	6.91	1231	15.6	2.60	-15.1	15.5	Clear, rotten egg

Comments/Well Condition: Finla DTW: 30.51

Signature (s) *M. Arendell* Date 11/20/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-8

Development
 Purging

Date: 11/20/2025 Time Start: 1005 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-1.632 4"-.6524 6"-1.5)
Total Depth of Well (feet) 63.60
Screen Interval _____ to _____
Initial Depth to Water (feet) 35.45
Height (h) of Water Column in Well (feet) _____
Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI _____ Pro Plus
 Solinst _____ Water Level Meter
 Other: _____ HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-08-WG-20251120 Date/Time: 11/20/25 @1020
Analysis: _____
QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1006			500	58.60	31.70	-	initial	7.14	798	14.7	0.40	-8.1	418	Cloudy, no odor
1009			500	58.60	31.70	0.5	0.5	7.13	788	15.0	0.30	-9.2	296	Cloudy, no odor
1012			500	58.60	31.70	0.5	1.0	7.12	781	15.3	0.30	-10.5	181	Cloudy, no odor
1015			500	58.60	31.70	0.5	1.5	7.12	788	15.4	0.30	-8.8	173	Cloudy, no odor
1018			500	58.60	31.70	0.5	2.0	7.12	779	15.4	0.30	-9.9	172	Cloudy, no odor

Final DTW: 31.70

Signature (s) *M. Arendell*

Date 11/20/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-9

Development
 Purging

Date: 11/20/2025 Time Start: 1146 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-1.632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 63.12
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 35.64
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-09-WG-20251120 Date/Time: 11/20/25 / 1210
 Analysis: _____
 QA/QC Samples: DUP-002-WG-202511205; 0002

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1146			400	58.12	35.65	-	initial	7.34	558.9	14.1	1.40	18.1	97.6	Clear, no odor
1149			400	58.12	35.65	0.25	0.3	7.39	552	14.8	0.90	13.5	94.8	Clear, no odor
1152			400	58.12	35.65	0.25	0.5	7.30	561	15.1	0.60	11.2	53.0	Clear, no odor
1155			400	58.12	35.65	0.25	0.8	7.40	566	15.1	0.50	9.5	42.4	Clear, no odor
1158			400	58.12	35.65	0.25	1.0	7.41	558	15.2	0.50	8.4	23.2	Clear, no odor
1201			400	58.12	35.65	0.25	1.3	7.41	565	15.2	0.50	7.6	22.9	Clear, no odor
1204			400	58.12	35.65	0.25	1.5	7.41	567	15.2	0.50	6.3	23.7	Clear, no odor

Comments/Well Condition: Final DTW: 35.65

Signature (s) *M. Arendell* Date 11/20/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-10S

Development
 Purging

Date: 11/19/2025 Time Start: 1538 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-1.632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 62.64
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 29.42
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration _____
 YSI _____ Pro Plus
 Solinst _____ Water Level Meter
 Other: _____ HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-10S-WG-20251119 Date/Time: 11/19/25 / 1600
 Analysis: _____
 QA/QC Samples: NA

Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				Increment	Cumulative							
1538			450	57.64	30.00	-	initial	7.07	1292	14.5	1.00	-1.7	936.0	Cloudy, slight rotten egg
1541			450	57.64	30.00	0.5	0.5	7.12	1296	15.0	0.40	-50.7	377	Cloudy, slight rotten egg
1544			450	57.64	30.00	0.5	1.0	7.12	1297	15.5	0.40	-66.7	105	Cloudy, slight rotten egg
1547			450	57.64	30.00	0.5	1.5	7.13	1297	15.7	0.30	-73.6	46	Clear, slight rotten egg
1550			450	57.64	30.00	0.5	2.0	7.12	1298	15.7	0.30	-77.6	46	Clear, slight rotten egg
1553			450	57.64	30.00	0.5	2.5	7.12	1298	15.8	0.30	-78.6	44.0	Clear, slight rotten egg

Comments/Well Condition: Final DTW: 30.0

Signature (s) *M. Arendell* Date 11/19/2025 Reviewer _____ Date _____

Well Development/Purging Data Sheet

Well/Piezometer Number: APW-10D

Development
 Purging

Date: 11/19/2025 Time Start: 1509 Page 1 of 1

Project Name: GTEC Post Closure Monitoring Q4 2025 Project Manager/Samplers M. Arendell & M. Dawid Project No. 0761817

Client Company: Grand Tower Energy Center Project/Task No. 4

Site Name: GTEC Landfill Site Address 1820 Power Plant Rd Grand Tower, Illinois 62942

Development Criteria

3 Casing Volumes of Water Removal
 Stabilization of Indicator Parameters
 Other _____

Water Volume Calculation

(2"-1.632 4"-.6524 6"-1.5)
 Total Depth of Well (feet) 98.00
 Screen Interval _____ to _____
 Initial Depth to Water (feet) 27.96
 Height (h) of Water Column in Well (feet) _____
 Diameter (inches): Well 2" Gravel Pack _____

Water Quality Instrument

Calibration
 YSI Pro Plus
 Solinst Water Level Meter
 Other: HACH Turbidity Meter

Method of Purge/Development

Pump	Bailer
<input checked="" type="checkbox"/> Submersible (s)	<input type="checkbox"/> Bottom Valve
<input type="checkbox"/> Peristaltic (p)	<input type="checkbox"/> Double Check Valve
<input type="checkbox"/> Whale Pump (w)	<input type="checkbox"/> Teflon
<input type="checkbox"/> Other _____	<input type="checkbox"/> Disposable

Item	Water Vol in Well	Purge Mult.	Purge/Dev Volume (Gal)
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Water Management

Surface Discharge Containerize

Sample Information:

ID: APW-10D-WG-20251119 Date/Time: 11/19/25 / 1530
 Analysis: _____
 QA/QC Samples: NA

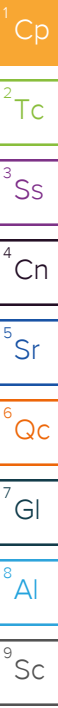
Stabilization Data

Time	Purge Rate		Removal Rate (mL/min)	Intake Depth (feet)	Water Depth (feet)	Water Volume Removed (gallons)		pH	Sp. Cond (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)	Turbidity (mV)	Comments
	Vol (ml)	Time(sec)				v/t*60	Increment							
1509			450	93	28.05	-	initial	7.17	695	14.5	1.40	15.2	236.0	Clear, no odor
1512			450	93	28.05	0.5	0.5	7.07	693	15.0	0.50	14.20	215	Clear, no odor
1515			450	93	28.05	0.5	1.0	7.06	694	15.2	0.50	12.70	183	Clear, no odor
1518			450	93	28.05	0.5	1.5	7.06	695	15.3	0.40	11.30	125	Clear, no odor
1521			450	93	28.05	0.5	2.0	7.06	698	15.5	0.40	10.20	124	Clear, no odor
1524			450	93	28.05	0.5	2.5	7.06	698	15.3	0.40	9.60	121	Clear, no odor

Comments/Well Condition: Final DTW: 28.05

Signature (s) *M. Arendell* Date 11/19/2025 Reviewer _____ Date _____

APPENDIX D FOURTH QUARTER 2025 LABORATORY ANALYTICAL REPORT



ERM - St. Louis, MO

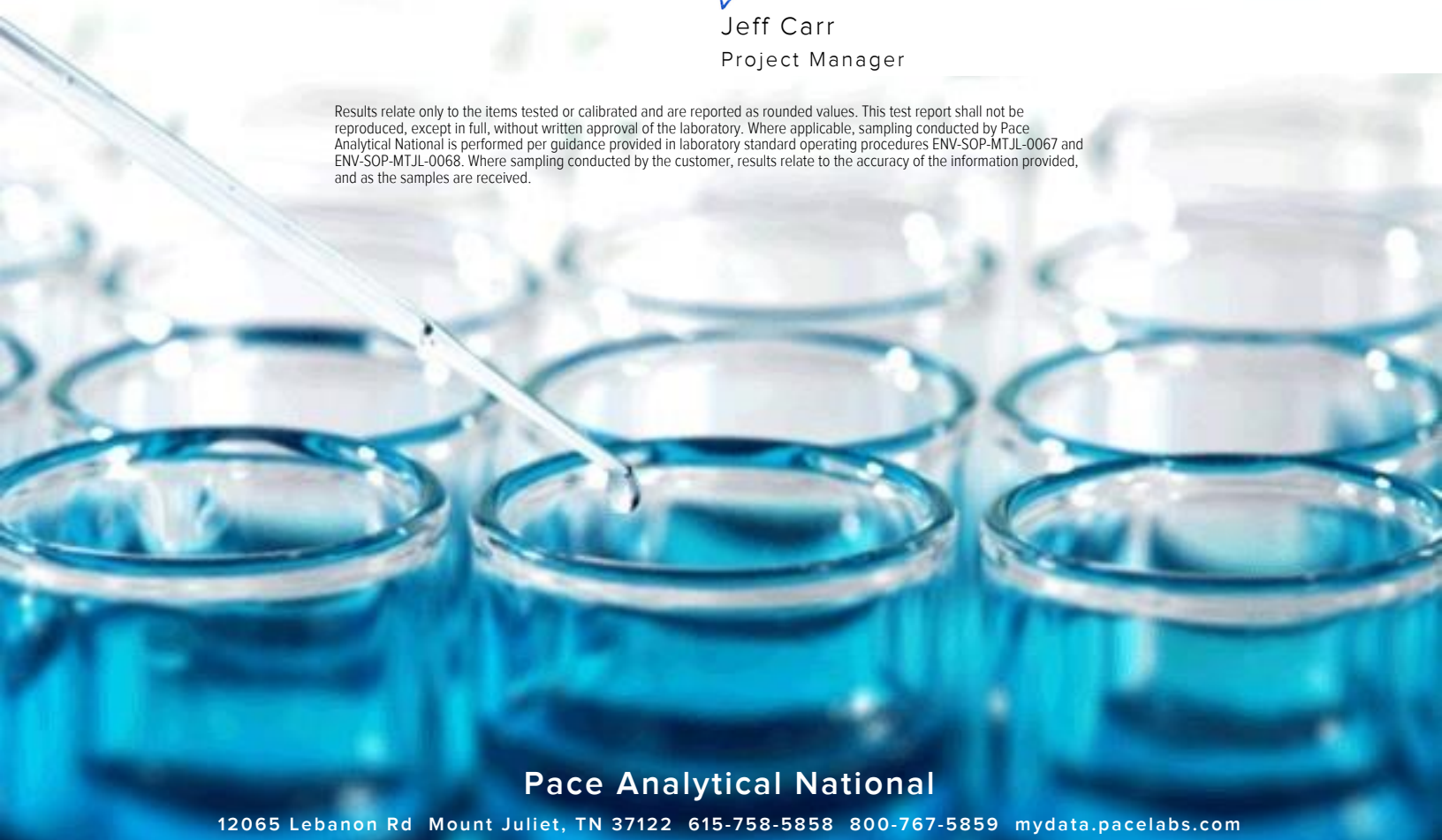
Sample Delivery Group: L1921496
Samples Received: 11/22/2025
Project Number: 0599247
Description: Grand Tower Energy Center Groundwater 4Q25 Sampling
Report To: Randy Homburg
1968 Craig Road, Suite 100
Saint Louis, MO 63146

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.

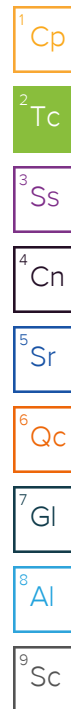


Pace Analytical National

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-20251120 L1921496-01

Collected by: Marshall A
 Collected date/time: 11/20/25 09:40
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 14:59	11/27/25 14:59	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	10	11/27/25 15:12	11/27/25 15:12	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647379	1	11/26/25 04:02	11/26/25 04:02	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2645321	1	11/28/25 12:00	11/29/25 18:50	MDE	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:27	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:22	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:25	11/29/25 14:27	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 15:10	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:28	JPD	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

APW-08-WG-20251120 L1921496-02

Collected by: Marshall A
 Collected date/time: 11/20/25 10:20
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 16:28	11/27/25 16:28	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647379	1	11/26/25 04:02	11/26/25 04:02	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2645321	1	11/28/25 12:00	11/29/25 18:53	MDE	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:30	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:24	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:25	11/29/25 14:30	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 15:49	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:31	JPD	Mt. Juliet, TN

APW-07-WG-20251120 L1921496-03

Collected by: Marshall A
 Collected date/time: 11/20/25 08:45
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 16:40	11/27/25 16:40	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647420	1	11/25/25 23:34	11/25/25 23:34	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2645321	1	11/28/25 12:00	11/29/25 18:55	MDE	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:33	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:27	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:25	11/29/25 14:32	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 15:52	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:34	JPD	Mt. Juliet, TN

APW-10S-WG-20251119 L1921496-04

Collected by: Marshall A
 Collected date/time: 11/19/25 16:00
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 17:06	11/27/25 17:06	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647420	1	11/25/25 23:34	11/25/25 23:34	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 13:54	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:35	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:30	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:18	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 15:55	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:45	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	5	12/01/25 21:57	12/13/25 19:28	TMT	Mt. Juliet, TN

SAMPLE SUMMARY

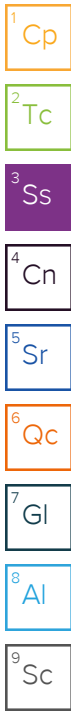
APW-10D-WG-20251119 L1921496-05

Collected by
Marshall A

Collected date/time
11/19/25 15:30

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 17:18	11/27/25 17:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647408	1	11/26/25 01:33	11/26/25 01:33	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 13:57	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:43	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:38	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:34	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 15:58	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:48	JPD	Mt. Juliet, TN



APW-06S-WG-20251119 L1921496-06

Collected by
Marshall A

Collected date/time
11/19/25 12:05

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 17:31	11/27/25 17:31	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	10	11/27/25 17:43	11/27/25 17:43	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647420	1	11/25/25 23:34	11/25/25 23:34	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:11	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:45	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:40	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:41	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:02	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:51	JPD	Mt. Juliet, TN

APW-06D-WG-20251119 L1921496-07

Collected by
Marshall A

Collected date/time
11/19/25 11:40

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 17:56	11/27/25 17:56	GEB	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	10	11/27/25 18:09	11/27/25 18:09	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647379	1	11/26/25 04:02	11/26/25 04:02	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:13	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:48	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:43	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:43	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:05	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:54	JPD	Mt. Juliet, TN

APW-05R-WG-20251119 L1921496-08

Collected by
Marshall A

Collected date/time
11/19/25 13:10

Received date/time
11/22/25 09:00

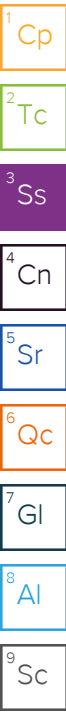
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	5	11/27/25 18:21	11/27/25 18:21	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647408	1	11/26/25 01:33	11/26/25 01:33	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:16	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:51	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:46	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:46	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:08	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 18:57	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

APW-09-WG-20251120 L1921496-09

Collected by: Marshall A
 Collected date/time: 11/20/25 12:10
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 19:12	11/27/25 19:12	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647408	1	11/26/25 01:33	11/26/25 01:33	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:19	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:53	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:48	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:48	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:11	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:00	JPD	Mt. Juliet, TN



APW-02-WG-20251119 L1921496-10

Collected by: Marshall A
 Collected date/time: 11/19/25 13:55
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	5	11/27/25 19:25	11/27/25 19:25	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647408	1	11/26/25 01:33	11/26/25 01:33	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:22	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:56	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:51	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:50	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:14	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:03	JPD	Mt. Juliet, TN

APW-01R-WG-20251120 L1921496-11

Collected by: Marshall A
 Collected date/time: 11/20/25 11:20
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 19:50	11/27/25 19:50	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647379	1	11/26/25 04:02	11/26/25 04:02	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:25	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 11:58	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:53	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:53	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:18	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:06	JPD	Mt. Juliet, TN

APW-04-WG-20251119 L1921496-12

Collected by: Marshall A
 Collected date/time: 11/19/25 16:50
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 20:02	11/27/25 20:02	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647420	1	11/25/25 23:34	11/25/25 23:34	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:33	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 12:01	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:56	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:55	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:32	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:09	JPD	Mt. Juliet, TN

SAMPLE SUMMARY

EB-01-WG-20251119 L1921496-13

Collected by
Marshall A

Collected date/time
11/19/25 10:40

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2646997	1	11/25/25 08:47	11/25/25 11:09	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 20:15	11/27/25 20:15	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647420	1	11/25/25 23:34	11/25/25 23:34	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:36	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 14:57	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:12	JPD	Mt. Juliet, TN



DUP-01-WG-20251119 L1921496-14

Collected by
Marshall A

Collected date/time
11/19/25 00:01

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2647002	1	11/25/25 07:03	11/25/25 14:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	5	11/27/25 20:28	11/27/25 20:28	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647408	1	11/26/25 01:33	11/26/25 01:33	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:39	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 12:03	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 00:59	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 15:00	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:35	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:22	TMT	Mt. Juliet, TN

DUP-02-WG-20251120 L1921496-15

Collected by
Marshall A

Collected date/time
11/20/25 00:02

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2647002	1	11/25/25 07:03	11/25/25 14:17	AMG	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2645785	1	11/27/25 20:53	11/27/25 20:53	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2647408	1	11/26/25 01:33	11/26/25 01:33	AVB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646383	1	11/28/25 17:35	11/30/25 14:42	AKB	Mt. Juliet, TN
Mercury by Method 7470A	WG2646389	1	11/28/25 15:04	12/01/25 12:06	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646529	1	11/26/25 18:52	11/27/25 01:01	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2646564	1	11/28/25 09:21	11/29/25 15:02	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646542	1	11/26/25 20:55	12/14/25 16:39	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2646586	1	12/01/25 21:57	12/13/25 19:25	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.

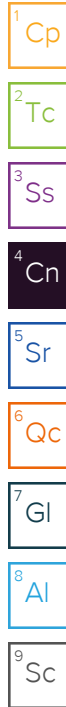


Jeff Carr
Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1921496-01	APW-03-WG-20251120	6020B, 7470A, 6010D
L1921496-02	APW-08-WG-20251120	6020B, 6010D, 7470A
L1921496-03	APW-07-WG-20251120	6020B, 6010D, 7470A
L1921496-04	APW-10S-WG-20251119	6020B, 6010D, 7470A
L1921496-05	APW-10D-WG-20251119	6020B, 6010D, 7470A
L1921496-06	APW-06S-WG-20251119	7470A, 6020B, 6010D
L1921496-07	APW-06D-WG-20251119	6020B, 6010D, 7470A
L1921496-08	APW-05R-WG-20251119	6020B, 6010D, 7470A
L1921496-09	APW-09-WG-20251120	6010D, 6020B, 7470A
L1921496-10	APW-02-WG-20251119	6020B, 6010D, 7470A
L1921496-11	APW-01R-WG-20251120	6010D, 6020B, 7470A
L1921496-12	APW-04-WG-20251119	6010D, 7470A, 6020B
L1921496-14	DUP-01-WG-20251119	6010D, 6020B, 7470A
L1921496-15	DUP-02-WG-20251120	6020B, 6010D, 7470A
R4307085-3		6010D
R4313983-3		6020B



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	541		10.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.41		1.00	1	11/27/2025 14:59	WG2645785
Fluoride	0.289		0.150	1	11/27/2025 14:59	WG2645785
Sulfate	242		50.0	10	11/27/2025 15:12	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.75	<u>T8</u>	1	11/26/2025 04:02	WG2647379

Sample Narrative:

L1921496-01 WG2647379: 7.75 at 18.8C

Mercury by Method 7470A

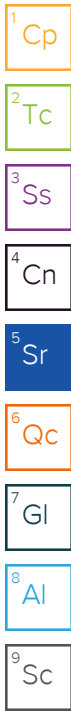
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/29/2025 18:50	WG2645321
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:27	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	4.02		0.200	1	11/29/2025 14:27	WG2646564
Boron,Dissolved	4.00		0.200	1	11/27/2025 00:22	WG2646529
Calcium	116		1.00	1	11/29/2025 14:27	WG2646564
Calcium,Dissolved	122		1.00	1	11/27/2025 00:22	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:28	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 15:10	WG2646542
Arsenic	ND		0.00200	1	12/13/2025 18:28	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542
Barium	0.115		0.00200	1	12/13/2025 18:28	WG2646586
Barium,Dissolved	0.118		0.00200	1	12/14/2025 15:10	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:28	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:28	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 15:10	WG2646542
Chromium	ND		0.00200	1	12/13/2025 18:28	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:28	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:28	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542
Lithium	0.0276		0.00200	1	12/13/2025 18:28	WG2646586
Lithium,Dissolved	0.0304		0.00200	1	12/14/2025 15:10	WG2646542
Molybdenum	0.0567		0.00500	1	12/13/2025 18:28	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0584		0.00500	1	12/14/2025 15:10	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:28	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:28	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 15:10	WG2646542

- 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	432		20.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	7.46		1.00	1	11/27/2025 16:28	WG2645785
Fluoride	0.266		0.150	1	11/27/2025 16:28	WG2645785
Sulfate	26.2		5.00	1	11/27/2025 16:28	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.25	<u>T8</u>	1	11/26/2025 04:02	WG2647379

Sample Narrative:

L1921496-02 WG2647379: 7.25 at 18.8C

Mercury by Method 7470A

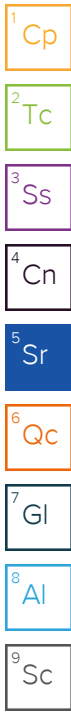
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/29/2025 18:53	WG2645321
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:30	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2025 14:30	WG2646564
Boron,Dissolved	ND		0.200	1	11/27/2025 00:24	WG2646529
Calcium	107		1.00	1	11/29/2025 14:30	WG2646564
Calcium,Dissolved	111		1.00	1	11/27/2025 00:24	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:31	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 15:49	WG2646542
Arsenic	ND		0.00200	1	12/13/2025 18:31	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 15:49	WG2646542
Barium	0.210		0.00200	1	12/13/2025 18:31	WG2646586
Barium,Dissolved	0.216		0.00200	1	12/14/2025 15:49	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:31	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 15:49	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:31	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 15:49	WG2646542
Chromium	0.00243		0.00200	1	12/13/2025 18:31	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 15:49	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:31	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 15:49	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:31	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 15:49	WG2646542
Lithium	0.0186		0.00200	1	12/13/2025 18:31	WG2646586
Lithium,Dissolved	0.0185		0.00200	1	12/14/2025 15:49	WG2646542
Molybdenum	ND		0.00500	1	12/13/2025 18:31	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	12/14/2025 15:49	WG2646542
Selenium	0.0153		0.00200	1	12/13/2025 18:31	WG2646586
Selenium,Dissolved	0.0160		0.00200	1	12/14/2025 15:49	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:31	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 15:49	WG2646542

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	706		20.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	9.77		1.00	1	11/27/2025 16:40	WG2645785
Fluoride	0.197		0.150	1	11/27/2025 16:40	WG2645785
Sulfate	48.7		5.00	1	11/27/2025 16:40	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.01	<u>T8</u>	1	11/25/2025 23:34	WG2647420

Sample Narrative:

L1921496-03 WG2647420: 7.01 at 18.6C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/29/2025 18:55	WG2645321
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:33	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.212		0.200	1	11/29/2025 14:32	WG2646564
Boron,Dissolved	0.211		0.200	1	11/27/2025 00:27	WG2646529
Calcium	213		1.00	1	11/29/2025 14:32	WG2646564
Calcium,Dissolved	217		1.00	1	11/27/2025 00:27	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:34	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 15:52	WG2646542
Arsenic	ND		0.00200	1	12/13/2025 18:34	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542
Barium	0.335		0.00200	1	12/13/2025 18:34	WG2646586
Barium,Dissolved	0.267		0.00200	1	12/14/2025 15:52	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:34	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:34	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 15:52	WG2646542
Chromium	ND		0.00200	1	12/13/2025 18:34	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:34	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:34	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542
Lithium	0.0151		0.00200	1	12/13/2025 18:34	WG2646586
Lithium,Dissolved	0.0152		0.00200	1	12/14/2025 15:52	WG2646542
Molybdenum	ND		0.00500	1	12/13/2025 18:34	WG2646586

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	12/14/2025 15:52	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:34	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:34	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 15:52	WG2646542

- 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	714		20.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	14.6		1.00	1	11/27/2025 17:06	WG2645785
Fluoride	0.187		0.150	1	11/27/2025 17:06	WG2645785
Sulfate	ND		5.00	1	11/27/2025 17:06	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.20	<u>T8</u>	1	11/25/2025 23:34	WG2647420

Sample Narrative:

L1921496-04 WG2647420: 7.2 at 18.4C

Mercury by Method 7470A

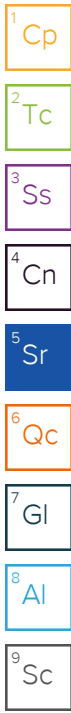
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 13:54	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:35	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.586		0.200	1	11/29/2025 14:18	WG2646564
Boron,Dissolved	0.579		0.200	1	11/27/2025 00:30	WG2646529
Calcium	158	<u>V</u>	1.00	1	11/29/2025 14:18	WG2646564
Calcium,Dissolved	160		1.00	1	11/27/2025 00:30	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:45	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 15:55	WG2646542
Arsenic	0.190		0.00200	1	12/13/2025 18:45	WG2646586
Arsenic,Dissolved	0.0702		0.00200	1	12/14/2025 15:55	WG2646542
Barium	0.556		0.0100	5	12/13/2025 19:28	WG2646586
Barium,Dissolved	0.360		0.00200	1	12/14/2025 15:55	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:45	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 15:55	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:45	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 15:55	WG2646542
Chromium	0.00271		0.00200	1	12/13/2025 18:45	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 15:55	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:45	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 15:55	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:45	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 15:55	WG2646542
Lithium	0.0283		0.00200	1	12/13/2025 18:45	WG2646586
Lithium,Dissolved	0.0309		0.00200	1	12/14/2025 15:55	WG2646542
Molybdenum	ND		0.00500	1	12/13/2025 18:45	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	12/14/2025 15:55	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:45	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 15:55	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:45	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 15:55	WG2646542

- 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	447		10.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.6		1.00	1	11/27/2025 17:18	WG2645785
Fluoride	ND		0.150	1	11/27/2025 17:18	WG2645785
Sulfate	32.0		5.00	1	11/27/2025 17:18	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.40	<u>T8</u>	1	11/26/2025 01:33	WG2647408

Sample Narrative:

L1921496-05 WG2647408: 7.4 at 19C

Mercury by Method 7470A

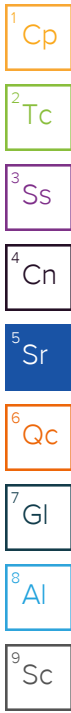
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 13:57	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:43	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2025 14:34	WG2646564
Boron,Dissolved	ND		0.200	1	11/27/2025 00:38	WG2646529
Calcium	127		1.00	1	11/29/2025 14:34	WG2646564
Calcium,Dissolved	127		1.00	1	11/27/2025 00:38	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:48	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 15:58	WG2646542
Arsenic	ND		0.00200	1	12/13/2025 18:48	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 15:58	WG2646542
Barium	0.325		0.00200	1	12/13/2025 18:48	WG2646586
Barium,Dissolved	0.352		0.00200	1	12/14/2025 15:58	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:48	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 15:58	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:48	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 15:58	WG2646542
Chromium	ND		0.00200	1	12/13/2025 18:48	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 15:58	WG2646542
Cobalt	0.00285		0.00200	1	12/13/2025 18:48	WG2646586
Cobalt,Dissolved	0.00298		0.00200	1	12/14/2025 15:58	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:48	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 15:58	WG2646542
Lithium	0.0147		0.00200	1	12/13/2025 18:48	WG2646586
Lithium,Dissolved	0.0155		0.00200	1	12/14/2025 15:58	WG2646542
Molybdenum	ND		0.00500	1	12/13/2025 18:48	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	ND		0.00500	1	12/14/2025 15:58	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:48	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 15:58	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:48	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 15:58	WG2646542

- 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	692		13.3	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	20.1		1.00	1	11/27/2025 17:31	WG2645785
Fluoride	0.299		0.150	1	11/27/2025 17:31	WG2645785
Sulfate	228		50.0	10	11/27/2025 17:43	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.28	<u>T8</u>	1	11/25/2025 23:34	WG2647420

Sample Narrative:

L1921496-06 WG2647420: 7.28 at 18.4C

Mercury by Method 7470A

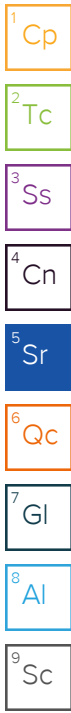
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:11	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:45	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	6.00		0.200	1	11/29/2025 14:41	WG2646564
Boron,Dissolved	6.15		0.200	1	11/27/2025 00:40	WG2646529
Calcium	137		1.00	1	11/29/2025 14:41	WG2646564
Calcium,Dissolved	143		1.00	1	11/27/2025 00:40	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:51	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:02	WG2646542
Arsenic	ND		0.00200	1	12/13/2025 18:51	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542
Barium	0.267		0.00200	1	12/13/2025 18:51	WG2646586
Barium,Dissolved	0.214		0.00200	1	12/14/2025 16:02	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:51	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:51	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:02	WG2646542
Chromium	0.00498		0.00200	1	12/13/2025 18:51	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:51	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:51	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542
Lithium	0.0391		0.00200	1	12/13/2025 18:51	WG2646586
Lithium,Dissolved	0.0432		0.00200	1	12/14/2025 16:02	WG2646542
Molybdenum	0.171		0.00500	1	12/13/2025 18:51	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.190		0.00500	1	12/14/2025 16:02	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:51	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:51	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:02	WG2646542

- 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	680		20.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	35.3		1.00	1	11/27/2025 17:56	WG2645785
Fluoride	0.249		0.150	1	11/27/2025 17:56	WG2645785
Sulfate	136		50.0	10	11/27/2025 18:09	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.50	<u>T8</u>	1	11/26/2025 04:02	WG2647379

Sample Narrative:

L1921496-07 WG2647379: 7.5 at 19C

Mercury by Method 7470A

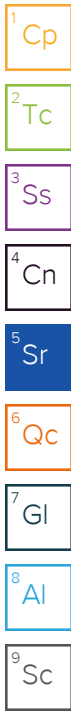
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:13	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:48	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	2.57		0.200	1	11/29/2025 14:43	WG2646564
Boron,Dissolved	2.67		0.200	1	11/27/2025 00:43	WG2646529
Calcium	110		1.00	1	11/29/2025 14:43	WG2646564
Calcium,Dissolved	115		1.00	1	11/27/2025 00:43	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:54	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:05	WG2646542
Arsenic	0.0108		0.00200	1	12/13/2025 18:54	WG2646586
Arsenic,Dissolved	0.00527		0.00200	1	12/14/2025 16:05	WG2646542
Barium	0.109		0.00200	1	12/13/2025 18:54	WG2646586
Barium,Dissolved	0.114		0.00200	1	12/14/2025 16:05	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:54	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:05	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:54	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:05	WG2646542
Chromium	ND		0.00200	1	12/13/2025 18:54	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:05	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:54	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:05	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:54	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:05	WG2646542
Lithium	0.0148		0.00200	1	12/13/2025 18:54	WG2646586
Lithium,Dissolved	0.0153		0.00200	1	12/14/2025 16:05	WG2646542
Molybdenum	0.0461		0.00500	1	12/13/2025 18:54	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0522		0.00500	1	12/14/2025 16:05	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:54	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 16:05	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:54	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:05	WG2646542

- 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	700		20.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	15.0		5.00	5	11/27/2025 18:21	WG2645785
Fluoride	ND		0.750	5	11/27/2025 18:21	WG2645785
Sulfate	330		25.0	5	11/27/2025 18:21	WG2645785

Sample Narrative:

L1921496-08 WG2645785: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.66	T8	1	11/26/2025 01:33	WG2647408

Sample Narrative:

L1921496-08 WG2647408: 7.66 at 19.1C

Mercury by Method 7470A

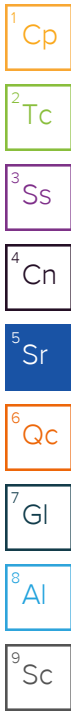
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:16	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:51	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	8.50		0.200	1	11/29/2025 14:46	WG2646564
Boron,Dissolved	8.72		0.200	1	11/27/2025 00:46	WG2646529
Calcium	132		1.00	1	11/29/2025 14:46	WG2646564
Calcium,Dissolved	136		1.00	1	11/27/2025 00:46	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 18:57	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:08	WG2646542
Arsenic	0.00218		0.00200	1	12/13/2025 18:57	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542
Barium	0.181		0.00200	1	12/13/2025 18:57	WG2646586
Barium,Dissolved	0.156		0.00200	1	12/14/2025 16:08	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 18:57	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 18:57	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:08	WG2646542
Chromium	ND		0.00200	1	12/13/2025 18:57	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 18:57	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542
Lead	ND		0.00200	1	12/13/2025 18:57	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lithium	0.0350		0.00200	1	12/13/2025 18:57	WG2646586
Lithium,Dissolved	0.0358		0.00200	1	12/14/2025 16:08	WG2646542
Molybdenum	0.185		0.00500	1	12/13/2025 18:57	WG2646586
Molybdenum,Dissolved	0.208		0.00500	1	12/14/2025 16:08	WG2646542
Selenium	ND		0.00200	1	12/13/2025 18:57	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542
Thallium	ND		0.00200	1	12/13/2025 18:57	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:08	WG2646542

- 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	363		10.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.8		1.00	1	11/27/2025 19:12	WG2645785
Fluoride	0.223		0.150	1	11/27/2025 19:12	WG2645785
Sulfate	35.4		5.00	1	11/27/2025 19:12	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.65	<u>T8</u>	1	11/26/2025 01:33	WG2647408

Sample Narrative:

L1921496-09 WG2647408: 7.65 at 18.6C

Mercury by Method 7470A

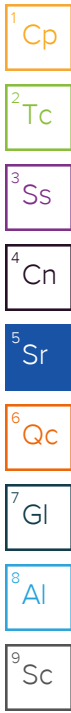
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:19	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:53	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.244		0.200	1	11/29/2025 14:48	WG2646564
Boron,Dissolved	0.235		0.200	1	11/27/2025 00:48	WG2646529
Calcium	85.8		1.00	1	11/29/2025 14:48	WG2646564
Calcium,Dissolved	89.2		1.00	1	11/27/2025 00:48	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:00	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:11	WG2646542
Arsenic	0.00221		0.00200	1	12/13/2025 19:00	WG2646586
Arsenic,Dissolved	0.00223		0.00200	1	12/14/2025 16:11	WG2646542
Barium	0.123		0.00200	1	12/13/2025 19:00	WG2646586
Barium,Dissolved	0.130		0.00200	1	12/14/2025 16:11	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 19:00	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:11	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 19:00	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:11	WG2646542
Chromium	ND		0.00200	1	12/13/2025 19:00	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:11	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 19:00	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:11	WG2646542
Lead	ND		0.00200	1	12/13/2025 19:00	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:11	WG2646542
Lithium	0.0134		0.00200	1	12/13/2025 19:00	WG2646586
Lithium,Dissolved	0.0139		0.00200	1	12/14/2025 16:11	WG2646542
Molybdenum	0.0184		0.00500	1	12/13/2025 19:00	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0212		0.00500	1	12/14/2025 16:11	WG2646542
Selenium	0.0160		0.00200	1	12/13/2025 19:00	WG2646586
Selenium,Dissolved	0.0167		0.00200	1	12/14/2025 16:11	WG2646542
Thallium	ND		0.00200	1	12/13/2025 19:00	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:11	WG2646542

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	775		13.3	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	8.80		5.00	5	11/27/2025 19:25	WG2645785
Fluoride	ND		0.750	5	11/27/2025 19:25	WG2645785
Sulfate	397		25.0	5	11/27/2025 19:25	WG2645785

Sample Narrative:

L1921496-10 WG2645785: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.38	<u>T8</u>	1	11/26/2025 01:33	WG2647408

Sample Narrative:

L1921496-10 WG2647408: 7.38 at 18.8C

Mercury by Method 7470A

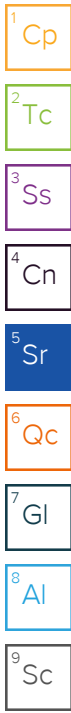
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:22	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:56	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	9.05		0.200	1	11/29/2025 14:50	WG2646564
Boron,Dissolved	9.17		0.200	1	11/27/2025 00:51	WG2646529
Calcium	150		1.00	1	11/29/2025 14:50	WG2646564
Calcium,Dissolved	149		1.00	1	11/27/2025 00:51	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:03	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:14	WG2646542
Arsenic	0.0175		0.00200	1	12/13/2025 19:03	WG2646586
Arsenic,Dissolved	0.00450		0.00200	1	12/14/2025 16:14	WG2646542
Barium	0.157		0.00200	1	12/13/2025 19:03	WG2646586
Barium,Dissolved	0.138		0.00200	1	12/14/2025 16:14	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 19:03	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:14	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 19:03	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:14	WG2646542
Chromium	0.0835		0.00200	1	12/13/2025 19:03	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:14	WG2646542
Cobalt	0.00360		0.00200	1	12/13/2025 19:03	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:14	WG2646542
Lead	0.00688		0.00200	1	12/13/2025 19:03	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:14	WG2646542



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lithium	0.0405		0.00200	1	12/13/2025 19:03	WG2646586
Lithium,Dissolved	0.0417		0.00200	1	12/14/2025 16:14	WG2646542
Molybdenum	0.159		0.00500	1	12/13/2025 19:03	WG2646586
Molybdenum,Dissolved	0.178		0.00500	1	12/14/2025 16:14	WG2646542
Selenium	ND		0.00200	1	12/13/2025 19:03	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 16:14	WG2646542
Thallium	ND		0.00200	1	12/13/2025 19:03	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:14	WG2646542

- 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	383		10.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	6.53		1.00	1	11/27/2025 19:50	WG2645785
Fluoride	0.194		0.150	1	11/27/2025 19:50	WG2645785
Sulfate	60.8		5.00	1	11/27/2025 19:50	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.92	<u>T8</u>	1	11/26/2025 04:02	WG2647379

Sample Narrative:

L1921496-11 WG2647379: 6.92 at 19.4C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:25	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 11:58	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.231		0.200	1	11/29/2025 14:53	WG2646564
Boron,Dissolved	0.224		0.200	1	11/27/2025 00:53	WG2646529
Calcium	84.6		1.00	1	11/29/2025 14:53	WG2646564
Calcium,Dissolved	87.6		1.00	1	11/27/2025 00:53	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:06	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:18	WG2646542
Arsenic	ND		0.00200	1	12/13/2025 19:06	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 16:18	WG2646542
Barium	0.170		0.00200	1	12/13/2025 19:06	WG2646586
Barium,Dissolved	0.175		0.00200	1	12/14/2025 16:18	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 19:06	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:18	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 19:06	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:18	WG2646542
Chromium	0.00242		0.00200	1	12/13/2025 19:06	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:18	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 19:06	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:18	WG2646542
Lead	ND		0.00200	1	12/13/2025 19:06	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:18	WG2646542
Lithium	0.0146		0.00200	1	12/13/2025 19:06	WG2646586
Lithium,Dissolved	0.0141		0.00200	1	12/14/2025 16:18	WG2646542
Molybdenum	ND		0.00500	1	12/13/2025 19:06	WG2646586

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	12/14/2025 16:18	WG2646542
Selenium	0.00406		0.00200	1	12/13/2025 19:06	WG2646586
Selenium,Dissolved	0.00403		0.00200	1	12/14/2025 16:18	WG2646542
Thallium	ND		0.00200	1	12/13/2025 19:06	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:18	WG2646542

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	438		10.0	1	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	10.0		1.00	1	11/27/2025 20:02	WG2645785
Fluoride	0.178		0.150	1	11/27/2025 20:02	WG2645785
Sulfate	67.3		5.00	1	11/27/2025 20:02	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.43	<u>T8</u>	1	11/25/2025 23:34	WG2647420

Sample Narrative:

L1921496-12 WG2647420: 7.43 at 18.5C

Mercury by Method 7470A

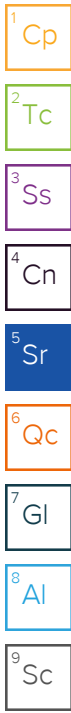
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:33	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 12:01	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.654		0.200	1	11/29/2025 14:55	WG2646564
Boron,Dissolved	0.654		0.200	1	11/27/2025 00:56	WG2646529
Calcium	106		1.00	1	11/29/2025 14:55	WG2646564
Calcium,Dissolved	109		1.00	1	11/27/2025 00:56	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:09	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:32	WG2646542
Arsenic	0.00200		0.00200	1	12/13/2025 19:09	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 16:32	WG2646542
Barium	0.150		0.00200	1	12/13/2025 19:09	WG2646586
Barium,Dissolved	0.143		0.00200	1	12/14/2025 16:32	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 19:09	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:32	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 19:09	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:32	WG2646542
Chromium	0.00328		0.00200	1	12/13/2025 19:09	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:32	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 19:09	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:32	WG2646542
Lead	ND		0.00200	1	12/13/2025 19:09	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:32	WG2646542
Lithium	0.0277		0.00200	1	12/13/2025 19:09	WG2646586
Lithium,Dissolved	0.0276		0.00200	1	12/14/2025 16:32	WG2646542
Molybdenum	0.0301		0.00500	1	12/13/2025 19:09	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0347		0.00500	1	12/14/2025 16:32	WG2646542
Selenium	0.0109		0.00200	1	12/13/2025 19:09	WG2646586
Selenium,Dissolved	0.0108		0.00200	1	12/14/2025 16:32	WG2646542
Thallium	ND		0.00200	1	12/13/2025 19:09	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:32	WG2646542

- 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	11/25/2025 11:09	WG2646997

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		1.00	1	11/27/2025 20:15	WG2645785
Fluoride	ND		0.150	1	11/27/2025 20:15	WG2645785
Sulfate	ND		5.00	1	11/27/2025 20:15	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.68	<u>T8</u>	1	11/25/2025 23:34	WG2647420

Sample Narrative:

L1921496-13 WG2647420: 6.68 at 18.9C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:36	WG2646383

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	ND		0.200	1	11/29/2025 14:57	WG2646564
Calcium	ND		1.00	1	11/29/2025 14:57	WG2646564

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:12	WG2646586
Arsenic	ND		0.00200	1	12/13/2025 19:12	WG2646586
Barium	ND		0.00200	1	12/13/2025 19:12	WG2646586
Beryllium	ND		0.00200	1	12/13/2025 19:12	WG2646586
Cadmium	ND		0.00100	1	12/13/2025 19:12	WG2646586
Chromium	ND		0.00200	1	12/13/2025 19:12	WG2646586
Cobalt	ND		0.00200	1	12/13/2025 19:12	WG2646586
Lead	ND		0.00200	1	12/13/2025 19:12	WG2646586
Lithium	ND		0.00200	1	12/13/2025 19:12	WG2646586
Molybdenum	ND		0.00500	1	12/13/2025 19:12	WG2646586
Selenium	ND		0.00200	1	12/13/2025 19:12	WG2646586
Thallium	ND		0.00200	1	12/13/2025 19:12	WG2646586

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	703		13.3	1	11/25/2025 14:17	WG2647002

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	15.5		5.00	5	11/27/2025 20:28	WG2645785
Fluoride	ND		0.750	5	11/27/2025 20:28	WG2645785
Sulfate	329		25.0	5	11/27/2025 20:28	WG2645785

Sample Narrative:

L1921496-14 WG2645785: Dilution due to matrix impact on instrumentation at lower dilution

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.62	T8	1	11/26/2025 01:33	WG2647408

Sample Narrative:

L1921496-14 WG2647408: 7.62 at 18.6C

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:39	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 12:03	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	8.54		0.200	1	11/29/2025 15:00	WG2646564
Boron,Dissolved	8.74		0.200	1	11/27/2025 00:59	WG2646529
Calcium	131		1.00	1	11/29/2025 15:00	WG2646564
Calcium,Dissolved	136		1.00	1	11/27/2025 00:59	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:22	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:35	WG2646542
Arsenic	0.00250		0.00200	1	12/13/2025 19:22	WG2646586
Arsenic,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542
Barium	0.185		0.00200	1	12/13/2025 19:22	WG2646586
Barium,Dissolved	0.149		0.00200	1	12/14/2025 16:35	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 19:22	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 19:22	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:35	WG2646542
Chromium	0.00260		0.00200	1	12/13/2025 19:22	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 19:22	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542
Lead	ND		0.00200	1	12/13/2025 19:22	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Lithium	0.0345		0.00200	1	12/13/2025 19:22	WG2646586
Lithium,Dissolved	0.0352		0.00200	1	12/14/2025 16:35	WG2646542
Molybdenum	0.189		0.00500	1	12/13/2025 19:22	WG2646586
Molybdenum,Dissolved	0.200		0.00500	1	12/14/2025 16:35	WG2646542
Selenium	ND		0.00200	1	12/13/2025 19:22	WG2646586
Selenium,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542
Thallium	ND		0.00200	1	12/13/2025 19:22	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:35	WG2646542

- 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	350		10.0	1	11/25/2025 14:17	WG2647002

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	11.8		1.00	1	11/27/2025 20:53	WG2645785
Fluoride	0.231		0.150	1	11/27/2025 20:53	WG2645785
Sulfate	35.4		5.00	1	11/27/2025 20:53	WG2645785

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.82	<u>T8</u>	1	11/26/2025 01:33	WG2647408

Sample Narrative:

L1921496-15 WG2647408: 7.82 at 18.8C

Mercury by Method 7470A

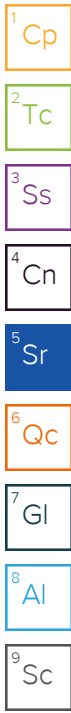
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	11/30/2025 14:42	WG2646383
Mercury,Dissolved	ND		0.000200	1	12/01/2025 12:06	WG2646389

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Boron	0.237		0.200	1	11/29/2025 15:02	WG2646564
Boron,Dissolved	0.247		0.200	1	11/27/2025 01:01	WG2646529
Calcium	85.1		1.00	1	11/29/2025 15:02	WG2646564
Calcium,Dissolved	88.2		1.00	1	11/27/2025 01:01	WG2646529

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Antimony	ND		0.00400	1	12/13/2025 19:25	WG2646586
Antimony,Dissolved	ND		0.00400	1	12/14/2025 16:39	WG2646542
Arsenic	0.00236		0.00200	1	12/13/2025 19:25	WG2646586
Arsenic,Dissolved	0.00219		0.00200	1	12/14/2025 16:39	WG2646542
Barium	0.124		0.00200	1	12/13/2025 19:25	WG2646586
Barium,Dissolved	0.124		0.00200	1	12/14/2025 16:39	WG2646542
Beryllium	ND		0.00200	1	12/13/2025 19:25	WG2646586
Beryllium,Dissolved	ND		0.00200	1	12/14/2025 16:39	WG2646542
Cadmium	ND		0.00100	1	12/13/2025 19:25	WG2646586
Cadmium,Dissolved	ND		0.00100	1	12/14/2025 16:39	WG2646542
Chromium	ND		0.00200	1	12/13/2025 19:25	WG2646586
Chromium,Dissolved	ND		0.00200	1	12/14/2025 16:39	WG2646542
Cobalt	ND		0.00200	1	12/13/2025 19:25	WG2646586
Cobalt,Dissolved	ND		0.00200	1	12/14/2025 16:39	WG2646542
Lead	ND		0.00200	1	12/13/2025 19:25	WG2646586
Lead,Dissolved	ND		0.00200	1	12/14/2025 16:39	WG2646542
Lithium	0.0139		0.00200	1	12/13/2025 19:25	WG2646586
Lithium,Dissolved	0.0138		0.00200	1	12/14/2025 16:39	WG2646542
Molybdenum	0.0187		0.00500	1	12/13/2025 19:25	WG2646586



Metals (ICPMS) by Method 6020B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Molybdenum,Dissolved	0.0207		0.00500	1	12/14/2025 16:39	WG2646542
Selenium	0.0159		0.00200	1	12/13/2025 19:25	WG2646586
Selenium,Dissolved	0.0168		0.00200	1	12/14/2025 16:39	WG2646542
Thallium	ND		0.00200	1	12/13/2025 19:25	WG2646586
Thallium,Dissolved	ND		0.00200	1	12/14/2025 16:39	WG2646542

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4307746-1 11/25/25 11:09

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

L1920887-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1920887-02 11/25/25 11:09 • (DUP) R4307746-3 11/25/25 11:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	285	288	1	1.05		10

L1921496-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1921496-13 11/25/25 11:09 • (DUP) R4307746-4 11/25/25 11:09

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

Laboratory Control Sample (LCS)

(LCS) R4307746-2 11/25/25 11:09

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

Method Blank (MB)

(MB) R4307748-1 11/25/25 14:17

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1921504-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1921504-01 11/25/25 14:17 • (DUP) R4307748-3 11/25/25 14:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	2160	2210	1	2.52		10

L1921551-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1921551-06 11/25/25 14:17 • (DUP) R4307748-4 11/25/25 14:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Dissolved Solids	255	257	1	0.781		10

Laboratory Control Sample (LCS)

(LCS) R4307748-2 11/25/25 14:17

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

Method Blank (MB)

(MB) R4307308-1 11/27/25 12:15

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

L1921371-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1921371-06 11/27/25 13:47 • (DUP) R4307308-3 11/27/25 14:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Fluoride	0.183	0.197	1	6.90		15

L1921371-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1921371-06 11/27/25 13:58 • (DUP) R4307308-4 11/27/25 14:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	381	379	10	0.643		15

L1921496-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1921496-01 11/27/25 14:59 • (DUP) R4307308-7 11/27/25 15:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	8.41	7.97	1	5.38		15
Fluoride	0.289	0.280	1	3.38		15

L1921496-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1921496-01 11/27/25 15:12 • (DUP) R4307308-8 11/27/25 15:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	242	242	10	0.159		15

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1921371-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1921371-06 11/28/25 23:16 • (DUP) R4307557-1 11/28/25 23:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	6720	6680	100	0.485		15

Laboratory Control Sample (LCS)

(LCS) R4307308-2 11/27/25 12:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Chloride	40.0	40.0	100	80.0-120	
Fluoride	8.00	8.36	105	80.0-120	
Sulfate	40.0	40.7	102	80.0-120	

L1921371-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921371-06 11/27/25 13:47 • (MS) R4307308-5 11/27/25 14:34 • (MSD) R4307308-6 11/27/25 14:46

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	%	%		%			%	%
Chloride	40.0	6780	5470	5480	0.000	0.000	1	80.0-120	<u>E V</u>	<u>E V</u>	0.134	15
Fluoride	8.00	0.183	4.46	4.54	53.4	54.4	1	80.0-120	<u>J6</u>	<u>J6</u>	1.77	15
Sulfate	40.0	384	347	349	0.000	0.000	1	80.0-120	<u>E V</u>	<u>E V</u>	0.309	15

L1921496-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1921496-01 11/27/25 14:59 • (MS) R4307308-9 11/27/25 15:50

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	40.0	8.41	46.5	95.1	1	80.0-120	
Fluoride	8.00	0.289	8.59	104	1	80.0-120	
Sulfate	40.0	255	244	0.000	1	80.0-120	<u>E V</u>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1921294-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1921294-01 11/26/25 04:02 • (DUP) R4306483-2 11/26/25 04:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su	su		%		%
pH	6.73	6.74	1	0.148		1

Sample Narrative:

OS: 6.73 at 19.8C
 DUP: 6.74 at 19.9C

L1921781-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1921781-02 11/26/25 04:02 • (DUP) R4306483-3 11/26/25 04:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su	su		%		%
pH	6.79	6.83	1	0.587		1

Sample Narrative:

OS: 6.79 at 18.8C
 DUP: 6.83 at 18.9C

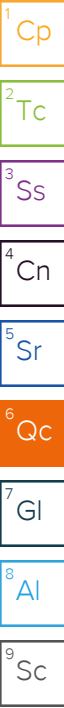
Laboratory Control Sample (LCS)

(LCS) R4306483-1 11/26/25 04:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
su	su	su	%	%	
pH	10.0	9.97	99.7	99.0-101	

Sample Narrative:

LCS: 9.97 at 18.8C



L1920440-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1920440-03 11/26/25 01:33 • (DUP) R4306484-2 11/26/25 01:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.87	7.90	1	0.380		1

Sample Narrative:

OS: 7.87 at 18.8C

DUP: 7.9 at 19.2C

L1921789-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1921789-01 11/26/25 01:33 • (DUP) R4306484-3 11/26/25 01:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.23	7.24	1	0.138		1

Sample Narrative:

OS: 7.23 at 18.6C

DUP: 7.24 at 19C

Laboratory Control Sample (LCS)

(LCS) R4306484-1 11/26/25 01:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	9.98	99.8	99.0-101	

Sample Narrative:

LCS: 9.98 at 18.5C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1919938-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1919938-01 11/25/25 23:34 • (DUP) R4306487-2 11/25/25 23:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su	su		%		%
pH	9.54	9.53	1	0.105		1

Sample Narrative:

OS: 9.54 at 18.7C

DUP: 9.53 at 19C

L1922013-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1922013-01 11/25/25 23:34 • (DUP) R4306487-3 11/25/25 23:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
su	su	su		%		%
pH	7.34	7.33	1	0.136		1

Sample Narrative:

OS: 7.34 at 18.7C

DUP: 7.33 at 18.8C

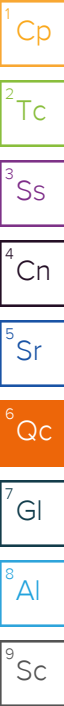
Laboratory Control Sample (LCS)

(LCS) R4306487-1 11/25/25 23:34

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 at 19.4C



Method Blank (MB)

(MB) R4307653-1 11/29/25 17:41

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) R4307653-2 11/29/25 17:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Mercury	0.00300	0.00293	97.8	80.0-120	

4 Cn

5 Sr

L1920880-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1920880-01 11/29/25 17:47 • (MS) R4307653-4 11/29/25 17:52 • (MSD) R4307653-5 11/29/25 18:01

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	0.00280	0.00285	93.4	95.0	1	75.0-125			1.64	20

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4307841-1 11/30/25 13:31

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) R4307841-2 11/30/25 13:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00302	101	80.0-120	

L1921593-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921593-01 11/30/25 13:37 • (MS) R4307841-4 11/30/25 13:43 • (MSD) R4307841-5 11/30/25 13:45

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	0.0300	ND	0.0288	0.0292	95.9	97.2	10	75.0-125			1.30	20

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

Method Blank (MB)

(MB) R4308141-1 12/01/25 11:12

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) R4308141-2 12/01/25 11:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury,Dissolved	0.00300	0.00310	103	80.0-120	

L1921498-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921498-06 12/01/25 11:17 • (MS) R4308141-4 12/01/25 11:22 • (MSD) R4308141-5 12/01/25 11:25

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	0.00286	0.00292	91.9	94.0	1	75.0-125			2.18	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4307085-1 11/27/25 00:06

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) R4307085-2 11/27/25 00:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron,Dissolved	1.00	0.942	94.2	80.0-120	
Calcium,Dissolved	10.0	10.1	101	80.0-120	

L1921725-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921725-01 11/27/25 00:11 • (MS) R4307085-4 11/27/25 00:16 • (MSD) R4307085-5 11/27/25 00:19

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	%	%		%			%	%
Boron,Dissolved	1.00		1.30	1.31	97.6	97.8	1	75.0-125			0.142	20
Calcium,Dissolved	10.0		50.6	51.0	87.9	91.3	1	75.0-125			0.664	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4307638-1 11/29/25 14:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0233	0.200
Calcium	0.221	↓	0.153	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4307638-2 11/29/25 14:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Boron	1.00	0.986	98.6	80.0-120	
Calcium	10.0	10.1	101	80.0-120	

L1921496-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921496-04 11/29/25 14:18 • (MS) R4307638-4 11/29/25 14:23 • (MSD) R4307638-5 11/29/25 14:25

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	0.586	1.54	1.54	95.2	95.6	1	75.0-125			0.291	20
Calcium	10.0	158	164	164	58.6	56.7	1	75.0-125	↓	↓	0.116	20

Method Blank (MB)

(MB) R4313983-1 12/14/25 15:03

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) R4313983-2 12/14/25 15:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony,Dissolved	0.0500	0.0496	99.2	80.0-120	
Arsenic,Dissolved	0.0500	0.0509	102	80.0-120	
Barium,Dissolved	0.0500	0.0487	97.3	80.0-120	
Beryllium,Dissolved	0.0500	0.0499	99.9	80.0-120	
Cadmium,Dissolved	0.0500	0.0515	103	80.0-120	
Chromium,Dissolved	0.0500	0.0518	104	80.0-120	
Cobalt,Dissolved	0.0500	0.0524	105	80.0-120	
Lead,Dissolved	0.0500	0.0500	99.9	80.0-120	
Lithium,Dissolved	0.0500	0.0513	103	80.0-120	
Molybdenum,Dissolved	0.0500	0.0497	99.5	80.0-120	
Selenium,Dissolved	0.0500	0.0488	97.6	80.0-120	
Thallium,Dissolved	0.0500	0.0507	101	80.0-120	

L1921496-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921496-01 12/14/25 15:10 • (MS) R4313983-4 12/14/25 15:16 • (MSD) R4313983-5 12/14/25 15:19

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	0.0511	0.0502	102	100	1	75.0-125			1.92	20
Arsenic,Dissolved	0.0500	ND	0.0521	0.0515	101	100	1	75.0-125			1.08	20
Barium,Dissolved	0.0500	0.118	0.168	0.162	100	88.0	1	75.0-125			3.70	20

L1921496-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921496-01 12/14/25 15:10 • (MS) R4313983-4 12/14/25 15:16 • (MSD) R4313983-5 12/14/25 15:19

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	0.0484	0.0477	96.9	95.5	1	75.0-125			1.46	20
Cadmium,Dissolved	0.0500	ND	0.0514	0.0511	103	102	1	75.0-125			0.662	20
Chromium,Dissolved	0.0500	ND	0.0504	0.0511	101	102	1	75.0-125			1.54	20
Cobalt,Dissolved	0.0500	ND	0.0515	0.0511	103	102	1	75.0-125			0.845	20
Lead,Dissolved	0.0500	ND	0.0495	0.0485	98.9	96.9	1	75.0-125			2.07	20
Lithium,Dissolved	0.0500	0.0304	0.0784	0.0767	96.0	92.5	1	75.0-125			2.24	20
Molybdenum,Dissolved	0.0500	0.0584	0.108	0.107	99.7	97.7	1	75.0-125			0.931	20
Selenium,Dissolved	0.0500	ND	0.0486	0.0489	94.9	95.5	1	75.0-125			0.646	20
Thallium,Dissolved	0.0500	ND	0.0487	0.0489	97.4	97.7	1	75.0-125			0.373	20

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

Method Blank (MB)

(MB) R4313830-1 12/13/25 18:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000310	0.00400
Arsenic	U		0.000120	0.00200
Barium	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	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) R4313830-2 12/13/25 18:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.0500	0.0453	90.5	80.0-120	
Arsenic	0.0500	0.0472	94.4	80.0-120	
Barium	0.0500	0.0481	96.2	80.0-120	
Beryllium	0.0500	0.0461	92.2	80.0-120	
Cadmium	0.0500	0.0489	97.9	80.0-120	
Chromium	0.0500	0.0479	95.8	80.0-120	
Cobalt	0.0500	0.0481	96.3	80.0-120	
Lead	0.0500	0.0471	94.2	80.0-120	
Lithium	0.0500	0.0452	90.4	80.0-120	
Molybdenum	0.0500	0.0459	91.8	80.0-120	
Selenium	0.0500	0.0488	97.7	80.0-120	
Thallium	0.0500	0.0470	93.9	80.0-120	

L1921602-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921602-02 12/13/25 18:12 • (MS) R4313830-4 12/13/25 18:19 • (MSD) R4313830-5 12/13/25 18:22

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	0.0480	0.0475	96.0	95.0	1	75.0-125			1.02	20
Arsenic	0.0500	0.00327	0.0514	0.0511	96.3	95.6	1	75.0-125			0.642	20
Barium	0.0500	0.890	0.917	0.918	55.2	57.4	1	75.0-125	<u>V</u>	<u>V</u>	0.122	20

L1921602-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921602-02 12/13/25 18:12 • (MS) R4313830-4 12/13/25 18:19 • (MSD) R4313830-5 12/13/25 18:22

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	0.0448	0.0450	89.6	90.1	1	75.0-125			0.539	20
Cadmium	0.0500	ND	0.0496	0.0490	99.2	97.9	1	75.0-125			1.31	20
Chromium	0.0500	ND	0.0478	0.0479	95.5	95.8	1	75.0-125			0.291	20
Cobalt	0.0500	0.00733	0.0553	0.0554	95.9	96.1	1	75.0-125			0.250	20
Lead	0.0500	ND	0.0486	0.0465	96.0	91.8	1	75.0-125			4.43	20
Lithium	0.0500	0.0771	0.118	0.119	81.6	84.2	1	75.0-125			1.08	20
Molybdenum	0.0500	ND	0.0520	0.0515	97.8	96.8	1	75.0-125			1.00	20
Selenium	0.0500	ND	0.0492	0.0486	97.1	95.9	1	75.0-125			1.24	20
Thallium	0.0500	ND	0.0477	0.0461	95.3	92.2	1	75.0-125			3.27	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

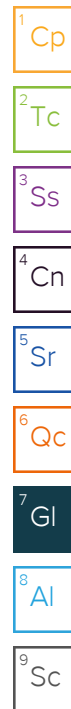
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 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/pacelabs-standard-terms.pdf>

SDG #

F103

Acctnum: **ERMSCMO**

Template: **T243415**

Prelogin: **P1185095**

PM: **206 - Jeff Carr**

PB:

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Report to:
Randy Homburg 314-682-3980

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

Project Description:
Grand Tower Energy Center Groundwater 4Q25

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

Please Circle:
PT MT **CT** ET

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

Client Project #
0599247

Lab Project #
ERMSCMO-0599247

Collected by (print):

Mashell Arendell

Site/Facility ID #

P.O. #

Collected by (signature):

Mashell Arendell

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

No.
of
Cntrs

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	Grab	GW		11/20/2025	0940	5	X	X	X	X	X				
APW-08-WG-2025		GW		11/20/2025	1020	5	X	X	X	X	X				
APW-07-WG-2025		GW		11/20/2025	0845	5	X	X	X	X	X				
APW-10S-WG-2025 1119		GW		11/19/2025	1600	5	X	X	X	X	X				
APW-10D-WG-2025 1119		GW			1530	5	X	X	X	X	X				
APW-06S-WG-2025 1119		GW			1205	5	X	X	X	X	X				
APW-06D-WG-2025 1119		GW			1140	5	X	X	X	X	X				
APW-05R-WG-2025 1119		GW			1310	5	X	X	X	X	X				
APW-09-WG-2025		GW		11/20/2025	1210	5	X	X	X	X	X				
APW-02-WG-2025 1119		GW		11/19/2025	1355	5	X	X	X	X	X				

01
02
03
04
05
06
07
08
09
10

* 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: 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)

M. Davis

Date:

11/21/25

Time:

1222

Received by: (Signature)

T. Wilson

Trip Blank Received: Yes/No

HCL/MeOH
TBR

Relinquished by: (Signature)

T. Wilson

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

74

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Received for lab by: (Signature)

C. Probert

Date: Time:

11-22-25 0900

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**

Pace
 PEOPLE ADVANCING SCIENCE

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 4Q25

City/State Collected:
Grand Tower, IL

Please Circle:
 PT MT **ET**

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

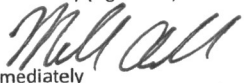
Client Project #
0599247

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

Packed on Ice N ___ Y **X**

No. of Cntrs

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 1120	Grab	GW	X	11/20/2025	1120	5	X	X	X	X	X					
APW-04-WG-2025 1119		GW		11/19/2025	1650	5	X	X	X	X	X					
EB-01-WG-2025 1119		GW		L	1040	5	X	X	X	X	X					
DUP-01-WG-2025 1119		GW			0001	5	X	X	X	X	X					
DUP-02-WG-2025 1120		GW			11/20/2025	0002	5	X	X	X	X	X				

SDG #	119249
Table #	
Acctnum: ERMSCMO	
Template: T243415	
Prelogin: P1185095	
PM: 206 - Jeff Carr	
PB:	
Shipped Via: FedEX Ground	
Remarks	Sample # (lab only)
	11 12 13 14 15

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

Remarks: **Did not collect dissolved metals on EB-01**


pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 ___ UPS ___ FedEx ___ Courier

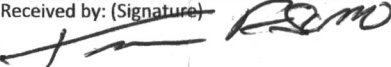
Tracking #

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)


Date: **11/21/25**
 Time: **1222**

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: **(OK)**

Relinquished by : (Signature)

Date:

Received for lab by: (Signature)
CRORDER

Date: **11-22-25**
 Time: **0900**

Effective Date:

Multiple Parcel Form

L# _____

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
400815519479	TUA9	1.2	±0	1.2	Yes / No / Not Present
4746 8274 3733	TUA9	1.7	↓	1.7	Yes / No / Not Present
4008 1551 9480	TUA9	0.4	↓	0.4	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
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

_____ Name

_____ Date

APPENDIX E FOURTH QUARTER 2025 RADIOLOGICAL
LABORATORY ANALYTICAL REPORT

ERM - St. Louis, MO

Sample Delivery Group: L1921508
Samples Received: 11/22/2025
Project Number: 0599247
Description: Grand Tower Energy Center Groundwater 4Q25 Sampling
Report To: Randy Homburg
1968 Craig Road, Suite 100
Saint Louis, MO 63146

Entire Report Reviewed By:

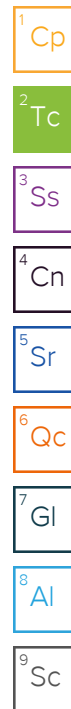


John Hawkins
Project Manager

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

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SAMPLE SUMMARY

APW-03-WG-20251120 L1921508-01

Collected by
Marshall A

Collected date/time
11/20/25 09:40

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

APW-08-WG-20251120 L1921508-02

Collected by
Marshall A

Collected date/time
11/20/25 10:20

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

APW-07-WG-20251120 L1921508-03

Collected by
Marshall A

Collected date/time
11/20/25 08:45

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:37	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:37	ZRG	Mt. Juliet, TN

APW-10S-WG-20251119 L1921508-04

Collected by
Marshall A

Collected date/time
11/19/25 16:00

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

APW-10D-WG-20251119 L1921508-05

Collected by
Marshall A

Collected date/time
11/19/25 15:30

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

APW-06S-WG-20251119 L1921508-06

Collected by
Marshall A

Collected date/time
11/19/25 12:05

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

APW-06D-WG-20251119 L1921508-07

Collected by
Marshall A

Collected date/time
11/19/25 11:40

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650335	1	12/02/25 09:42	12/05/25 23:30	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

APW-05R-WG-20251119 L1921508-08

Collected by
Marshall A

Collected date/time
11/19/25 13:10

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650986	1	12/09/25 06:52	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

APW-09-WG-20251120 L1921508-09

Collected by
Marshall A

Collected date/time
11/20/25 12:10

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650986	1	12/09/25 06:52	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

8 Al

9 Sc

APW-02-WG-20251119 L1921508-10

Collected by
Marshall A

Collected date/time
11/19/25 13:55

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650986	1	12/09/25 06:52	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

APW-01R-WG-20251120 L1921508-11

Collected by
Marshall A

Collected date/time
11/20/25 11:20

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650986	1	12/09/25 06:52	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

APW-04-WG-20251119 L1921508-12

Collected by
Marshall A

Collected date/time
11/19/25 16:50

Received date/time
11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2650986	1	12/09/25 06:52	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/18/25 23:00	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

SAMPLE SUMMARY

EB-01-WG-20251119 L1921508-13

Collected by: Marshall A
 Collected date/time: 11/19/25 10:40
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2651786	1	12/10/25 07:57	12/22/25 09:38	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/22/25 09:38	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

DUP-01-WG-20251119 L1921508-14

Collected by: Marshall A
 Collected date/time: 11/19/25 00:01
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2651786	1	12/10/25 07:57	12/22/25 09:38	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/22/25 09:38	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

⁴Cn

⁵Sr

⁶Qc

DUP-02-WG-20251120 L1921508-15

Collected by: Marshall A
 Collected date/time: 11/20/25 00:02
 Received date/time: 11/22/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2651786	1	12/10/25 07:57	12/22/25 09:38	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2651021	1	12/04/25 07:32	12/22/25 09:38	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2651021	1	12/04/25 07:32	12/09/25 10:36	ZRG	Mt. Juliet, TN

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

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



John Hawkins
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	0.427	J	0.529	0.558	0.893	0.322	12/05/2025 23:30	WG2650335
(T) Barium	116	C1				30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	84.5					30.0-110	12/05/2025 23:30	WG2650335

- 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	0.895	J	0.636	0.978	12/09/2025 10:36	WG2651021

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	0.469		0.353	0.451	0.399	0.128	12/09/2025 10:36	WG2651021
(T) Barium-133	72.1					30.0-110	12/09/2025 10:36	WG2651021

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	1.03		0.451	0.497	0.696	0.250	12/05/2025 23:30	WG2650335
(T) Barium	114	C1				30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	75.8					30.0-110	12/05/2025 23:30	WG2650335

- 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	1.30		0.543	0.808	12/09/2025 10:36	WG2651021

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	0.268	J	0.303	0.375	0.411	0.134	12/09/2025 10:36	WG2651021
(T) Barium-133	73.2					30.0-110	12/09/2025 10:36	WG2651021

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	1.31		0.435	0.486	0.647	0.233	12/05/2025 23:30	WG2650335
(T) Barium	116	C1				30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	82.7					30.0-110	12/05/2025 23:30	WG2650335

- 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	1.67		0.561	0.779	12/09/2025 10:37	WG2651021

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	0.362	J	0.355	0.479	0.433	0.112	12/09/2025 10:37	WG2651021
(T) Barium-133	52.5					30.0-110	12/09/2025 10:37	WG2651021

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	1.60		0.479	0.535	0.699	0.251	12/05/2025 23:30	WG2650335
(T) Barium	113	C1				30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	74.9					30.0-110	12/05/2025 23:30	WG2650335

- 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	2.48		0.594	0.730	12/09/2025 10:36	WG2651021

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	0.889		0.351	0.484	0.211	0.0548	12/09/2025 10:36	WG2651021
(T) Barium-133	95.5					30.0-110	12/09/2025 10:36	WG2651021

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	0.909		0.378	0.418	0.579	0.208	12/05/2025 23:30	WG2650335
(T) Barium	117	C1				30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	83.3					30.0-110	12/05/2025 23:30	WG2650335

- 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	1.56		0.536	0.654	12/09/2025 10:36	WG2651021

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	0.651		0.380	0.530	0.304	0.0735	12/09/2025 10:36	WG2651021
(T) Barium-133	73.0					30.0-110	12/09/2025 10:36	WG2651021

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	0.916		0.386	0.428	0.593	0.213	12/05/2025 23:30	WG2650335
(T) Barium	94.6					30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	90.2					30.0-110	12/05/2025 23:30	WG2650335

- 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	1.33		0.496	0.691	12/09/2025 10:36	WG2651021

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	0.418		0.311	0.409	0.354	0.117	12/09/2025 10:36	WG2651021
(T) Barium-133	96.2					30.0-110	12/09/2025 10:36	WG2651021

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	1.03		0.360	0.404	0.534	0.191	12/05/2025 23:30	WG2650335
(T) Barium	111	C1				30.0-110	12/05/2025 23:30	WG2650335
(T) Yttrium	91.0					30.0-110	12/05/2025 23:30	WG2650335

- 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	1.62		0.543	0.682	12/09/2025 10:36	WG2651021

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	0.585		0.407	0.524	0.425	0.129	12/09/2025 10:36	WG2651021
(T) Barium-133	73.8					30.0-110	12/09/2025 10:36	WG2651021

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	0.287	<u>U</u>	0.719	0.743	1.24	0.411	12/18/2025 23:00	WG2650986
(T) Barium	82.5					30.0-110	12/18/2025 23:00	WG2650986
(T) Yttrium	77.8					30.0-110	12/18/2025 23:00	WG2650986

- 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	0.962	<u>J</u>	0.812	1.28	12/18/2025 23:00	WG2651021

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	0.674		0.378	0.486	0.318	0.0870	12/09/2025 10:36	WG2651021
(T) Barium-133	87.8					30.0-110	12/09/2025 10:36	WG2651021

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	-0.160	<u>U</u>	0.463	0.480	0.839	0.277	12/18/2025 23:00	WG2650986
(T) Barium	84.3					30.0-110	12/18/2025 23:00	WG2650986
(T) Yttrium	74.3					30.0-110	12/18/2025 23:00	WG2650986

- 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	0.237	<u>U</u>	0.522	0.894	12/18/2025 23:00	WG2651021

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	0.237	<u>J</u>	0.241	0.293	0.308	0.0906	12/09/2025 10:36	WG2651021
(T) Barium-133	94.1					30.0-110	12/09/2025 10:36	WG2651021

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	0.0608	<u>U</u>	0.602	0.613	1.06	0.350	12/18/2025 23:00	WG2650986
(T) Barium	87.0					30.0-110	12/18/2025 23:00	WG2650986
(T) Yttrium	83.1					30.0-110	12/18/2025 23:00	WG2650986

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	0.587	<u>J</u>	0.721	1.15	12/18/2025 23:00	WG2651021

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	0.526		0.397	0.503	0.448	0.144	12/09/2025 10:36	WG2651021
(T) Barium-133	74.5					30.0-110	12/09/2025 10:36	WG2651021

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	0.572	J	0.456	0.490	0.749	0.247	12/18/2025 23:00	WG2650986
(T) Barium	83.7					30.0-110	12/18/2025 23:00	WG2650986
(T) Yttrium	83.9					30.0-110	12/18/2025 23:00	WG2650986

- 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	0.794	J	0.528	0.834	12/18/2025 23:00	WG2651021

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	0.222	J	0.267	0.340	0.367	0.100	12/09/2025 10:36	WG2651021
(T) Barium-133	75.4					30.0-110	12/09/2025 10:36	WG2651021

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	0.683	J	0.431	0.468	0.693	0.228	12/18/2025 23:00	WG2650986
(T) Barium	83.7					30.0-110	12/18/2025 23:00	WG2650986
(T) Yttrium	93.2					30.0-110	12/18/2025 23:00	WG2650986

- 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	0.966		0.487	0.737	12/18/2025 23:00	WG2651021

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	0.282		0.227	0.300	0.252	0.0717	12/09/2025 10:36	WG2651021
(T) Barium-133	93.2					30.0-110	12/09/2025 10:36	WG2651021

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	2.00		0.639	0.703	0.968	0.309	12/22/2025 09:38	WG2651786
(T) Barium	87.1					30.0-110	12/22/2025 09:38	WG2651786
(T) Yttrium	89.9					30.0-110	12/22/2025 09:38	WG2651786

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		0.667	1.03	12/22/2025 09:38	WG2651021

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	0.0633	<u>U</u>	0.190	0.235	0.342	0.103	12/09/2025 10:36	WG2651021
(T) Barium-133	81.7					30.0-110	12/09/2025 10:36	WG2651021

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	0.165	<u>J5 U</u>	0.659	0.677	1.14	0.365	12/22/2025 09:38	WG2651786
(T) Barium	89.4					30.0-110	12/22/2025 09:38	WG2651786
(T) Yttrium	101					30.0-110	12/22/2025 09:38	WG2651786

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	0.360	<u>U</u>	0.727	1.23	12/22/2025 09:38	WG2651021

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	0.195	<u>J</u>	0.308	0.380	0.466	0.152	12/09/2025 10:36	WG2651021
(T) Barium-133	80.2					30.0-110	12/09/2025 10:36	WG2651021

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	0.352	<u>U</u>	0.507	0.534	0.863	0.272	12/22/2025 09:38	WG2651786
(T) Barium	77.8					30.0-110	12/22/2025 09:38	WG2651786
(T) Yttrium	87.0					30.0-110	12/22/2025 09:38	WG2651786

- 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	0.640	<u>J</u>	0.579	0.929	12/22/2025 09:38	WG2651021

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	0.288	<u>J</u>	0.279	0.353	0.345	0.0984	12/09/2025 10:36	WG2651021
(T) Barium-133	83.6					30.0-110	12/09/2025 10:36	WG2651021

Method Blank (MB)

(MB) R4311428-1 12/05/25 18:10

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.408	↓	0.338	0.556	0.168
(T) Barium	107		107		
(T) Yttrium	78.9		78.9		

L1921508-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1921508-01 12/05/25 23:30 • (DUP) R4311428-5 12/05/25 18:10

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	0.427	0.529	0.893	0.322	1.20	0.606	0.952	0.288	95.0	0.959		20	3
(T) Barium	116				94.6	94.6							
(T) Yttrium	84.5				93.8	93.8							

Laboratory Control Sample (LCS)

(LCS) R4311428-2 12/05/25 18:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.45	109	80.0-120	
(T) Barium			95.0		
(T) Yttrium			82.2		

L1921107-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921107-01 12/05/25 18:10 • (MS) R4311428-3 12/05/25 18:10 • (MSD) R4311428-4 12/05/25 18:10

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	7.85	17.6	17.1	97.0	92.0	1	70.0-130			2.89		20
(T) Barium		91.7			103	98.1							
(T) Yttrium		92.1			81.3	85.7							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4317625-1 12/18/25 23:00

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.0146	<u>U</u>	0.351	0.615	0.205
(T) Barium	91.9		91.9		
(T) Yttrium	83.3		83.3		

L1920564-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1920564-07 12/18/25 23:00 • (DUP) R4317625-5 12/18/25 23:00

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	1.17	0.713	1.15	0.379	1.83	0.777	1.19	0.395	43.8	0.624		20	3
(T) Barium	76.9				85.6	85.6							
(T) Yttrium	88.9				75.9	75.9							

Laboratory Control Sample (LCS)

(LCS) R4317625-2 12/18/25 23:00

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.67	93.4	80.0-120	
(T) Barium			101		
(T) Yttrium			83.6		

L1920564-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1920564-05 12/18/25 23:00 • (MS) R4317625-3 12/18/25 23:00 • (MSD) R4317625-4 12/18/25 23:00

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.127	11.5	12.3	114	122	1	70.0-130			6.72		20
(T) Barium		91.4			95.8	90.4							
(T) Yttrium		78.8			80.1	79.9							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4317649-1 12/22/25 09:38

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.165	<u>U</u>	0.470	0.836	0.268
(T) Barium	78.4		78.4		
(T) Yttrium	80.8		80.8		

L1921891-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1921891-02 12/22/25 09:38 • (DUP) R4317649-5 12/22/25 09:38

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	1.06	0.708	1.15	0.339	-0.0275	0.733	1.28	0.411	200	1.06	<u>U</u>	20	3
(T) Barium	92.8				91.0	91.0							
(T) Yttrium	93.9				86.3	86.3							

Laboratory Control Sample (LCS)

(LCS) R4317649-2 12/22/25 09:38

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.59	91.9	80.0-120	
(T) Barium			85.4		
(T) Yttrium			89.2		

L1921508-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921508-14 12/22/25 09:38 • (MS) R4317649-3 12/22/25 09:38 • (MSD) R4317649-4 12/22/25 09:38

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	0.165	12.7	11.6	125	114	1	70.0-130			15.6		20
(T) Barium		89.4			92.9	87.1							
(T) Yttrium		101			90.2	91.8							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4312085-1 12/09/25 10:36

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0246	<u>U</u>	0.0481	0.113	0.0384
(T) Barium-133	75.5		75.5		

1 Cp

2 Tc

3 Ss

L1921508-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1921508-15 12/09/25 10:36 • (DUP) R4312085-5 12/09/25 10:36

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	0.288	0.279	0.345	0.0984	0.0331	0.112	0.219	0.0598	159	0.848	<u>U</u>	20	3
(T) Barium-133	83.6				91.0	91.0							

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R4312085-2 12/09/25 10:36

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.38	108	80.0-120	
(T) Barium-133			70.9		

7 Gl

8 Al

9 Sc

L1921508-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1921508-01 12/09/25 10:36 • (MS) R4312085-3 12/09/25 10:36 • (MSD) R4312085-4 12/09/25 10:36

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	0.469	24.5	25.1	120	123	1	75.0-125			2.46		20
(T) Barium-133		72.1			56.2	59.9							

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.

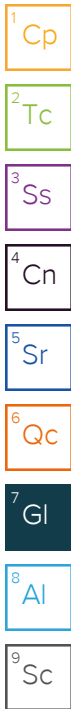
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 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/hubfs/pas-standard-terms.pdf>

SDG # L1921508

F104

Acctnum: **ERMSCMO**

Template: **T243472**

Prelogin: **P1185094**

PM: **206 - Jeff Carr**

PB:

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

Report to:
Randy Homburg 314-682-3980

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

Project Description:
Grand Tower Energy Center Groundwater 4Q25

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 Arcandell

Site/Facility ID #

P.O. #

Collected by (signature):

 Immediately
 Packed on Ice N Y X

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

No.
 of
 Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	RA-226 IL-HDPE-Add-HNO3	RA-228 IL-HDPE-Add-HNO3										
APW-03-WG-2025 1120	<u>Grab</u>	NPW		11/20/2025	0940	3	X	X										01
APW-08-WG-2025 1120		NPW		11/20/2025	1620	3	X	X										02
APW-07-WG-2025 1120		NPW		11/20/2025	0845	3	X	X										03
APW-10S-WG-2025 1119		NPW		11/19/2025	1600	3	X	X										04
APW-10D-WG-2025 1119		NPW			1530	3	X	X										05
APW-06S-WG-2025 1119		NPW			1205	3	X	X										06
APW-06D-WG-2025 1119		NPW			1140	3	X	X										07
APW-05R-WG-2025 1119		NPW			1310	3	X	X										08
APW-09-WG-2025 1120		NPW		11/20/2025	1200	3	X	X										09
APW-02-WG-2025 1119		NPW		11/19/2025	1355 1352 1350	3	X	X										10

* 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 #

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> 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)

Date:
11/27/25

Time:
1222

Received by: (Signature)

Trip Blank Received: Yes/No
 Yes No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C
 Bottles Received: 45

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:
11-22-25
 Time:
0900

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

Pres Chk																				
-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



MT JULIET, TN

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 Collected: **Grand Tower, IL**

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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 STD TAT

Quote #
 Date Results Needed

Immediately
 Packed on Ice N ___ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	RA-226 1L-HDPE-Add HNO3	RA-228 1L-HDPE-Add-HNO3												
APW-01R-WG-2025 1120	Grab	NPW	X	11/20/2025	1120	3	X	X												
APW-04-WG-2025 1119		NPW		11/19/2025	1650	3	X	X												
EB-01-WG-2025 1119		NPW		1040	3	X	X													
DUP-01-WG-2025 1119		NPW		0001	3	X	X													
DUP-02-WG-2025 1120		NPW		0002	3	X	X													

SDG # **L1921508**

Table #

Acctnum: **ERMSCMO**
 Template: **T243472**

Prelogin: **P1185094**
 PM: **206 - Jeff Carr**

PB:
 Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

	11
	12
	13
	14
	15

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

Relinquished by: (Signature)

Date: 11/21/25
 Time: 1222

Received by: (Signature)

Trip Blank Received: Yes/No
 HCL/MeOH
 TBR

Relinquished by: (Signature)

Date: _____
 Time: _____

Received by: (Signature)

Temp: _____ °C
 Bottles Received: 49

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
 Time: _____

Received for lab by: (Signature)

Date: 11-22-25
 Time: 0900

Hold: _____
 Condition: NCF / OK

