

REPORT

2025 Annual Groundwater Monitoring and Corrective Action Report

LCL1 – Utility Waste Landfill Cell 1, Labadie Energy Center, Franklin County, Missouri, USA

January 31, 2026

Project Number: 23007-25

Submitted to:



Ameren Missouri
1901 Chouteau Avenue
St. Louis, Missouri 63103

Submitted by:



Rocksmith Geoengineering, LLC
2320 Creve Coeur Mill Rd
Maryland Heights, MO 63043



EXECUTIVE SUMMARY AND STATUS OF THE LCL1 GROUNDWATER MONITORING PROGRAM

This annual report was developed to meet the requirements of United States Environmental Protection Agency (USEPA) 40 CFR Part 257 “Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule” (the CCR Rule). The CCR Rule requires owners or operators of existing CCR units to produce an Annual Groundwater Monitoring and Corrective Action Report (Annual Report) each year (§§ 257.90(e)). Ameren Missouri (Ameren) has determined that the Utility Waste Landfill (UWL) at the Labadie Energy Center (LEC) is subject to the requirements of the CCR Rule. The UWL currently only operates LCL1 (Cell 1), which is an on-site landfill cell and manages Coal Combustion Residuals (CCR) from the facility. This Annual Report for the LCL1 describes CCR Rule groundwater monitoring activities from January 1, 2025 through December 31, 2025, including results related to late 2024 sampling.

Throughout 2025, the LCL1 CCR unit has been operating under the Detection Monitoring Program (§257.94), which began October 17, 2017. As a part of Detection Monitoring, statistical evaluations are completed after each sampling event to determine if there are any values that represent a Statistically Significant Increase (SSI) over background concentrations. There were no SSIs verified during the October 2024 or April 2025 sampling events. A summary of the sampling events and SSIs for the past year is provided in **Table 1**.

Table 1 - Summary of LCL1 Sampling Events, Previous Year Verification, and Statistical Evaluations

Event Name	Type of Event and Sampling Dates	Laboratory Analytical Data Receipt	Parameters Collected	Verified SSIs	SSI Determination Date	ASD Completion Date
October 2024 Sampling Event	Detection Monitoring, October 28-31, 2024	December 23, 2024	Appendix III, Major Cations and Anions	None	March 21, 2025	NA
	Verification Sampling, February 4, 2025	February 18, 2025	Detected Appendix III parameters (See Note 1)			
April 2025 Sampling Event	Detection Monitoring, April 24-28, 2025	June 12, 2025	Appendix III, Major Cations and Anions	None	September 10, 2025	NA
	No Verification Sampling was required. No initial exceedances were observed in the April 2025 sampling event.					
October 2025 Sampling Event	Detection Monitoring October 20-21, 2025	November 22, 2025	Appendix III, Major Cations and Anions	<u>Chloride:</u> TMW-2	January 31, 2026	To be evaluated in 2026
	December 8, 2025	December 23, 2025	Detected Appendix III parameters (See Note 1)			

Notes:

- 1) Only analytes/wells that were detected above the prediction limit were tested during Verification Sampling.
- 2) SSI – Statistically Significant Increase.
- 3) ASD – Alternative Source Demonstration.
- 4) NA – Not Applicable.

As outlined in section 257.94(e)(2) of the CCR Rule, the owner or operator may demonstrate that a source other than the CCR unit has caused an SSI and that the apparent SSI was the result of an alternative source or resulted from errors in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.

Chloride at well TMW-2 was 8.8 J mg/L in October 2025 sampling and 8.3 mg/L during verification sampling conducted in December 2025. Both results are slightly above the prediction limit of 7.471 mg/L for chloride at TMW-2. Alternative Source Demonstrations (ASDs) have previously been conducted for chloride SSIs at this well, with the most recent chloride SSI and ASD for November 2023 results. An ASD for the chloride SSI identified during the October 2025 sampling event will be evaluated in 2026.

There were no changes made to the monitoring system in 2025 with no new wells being installed or decommissioned.

Table of Contents

1.0	Installation or Decommissioning of Monitoring Wells.....	1
2.0	Groundwater Sampling Results and Discussion.....	1
2.1	Detection Monitoring Program	1
2.2	Groundwater Elevation, Flow Rate and Direction	2
2.3	Sampling Issues	2
3.0	Activities Planned for 2026.....	2

TABLES

- Table 1** –Summary of 2025 LCL1 Sampling Events, Previous Year Verification, and Statistical Evaluations (in text)
- Table 2** – Summary of Groundwater Sampling Dates (in text)
- Table 3** – October 2024 Detection Monitoring Results
- Table 4** – April 2025 Detection Monitoring Results
- Table 5** – October 2025 Detection Monitoring Results

FIGURES

- Figure 1** – Labadie Energy Center Groundwater Monitoring Programs and Monitoring Well Location Map

APPENDICES

- Appendix A** – Laboratory Analytical Data
- Appendix B** – 2025 Potentiometric Surface Maps

1.0 INSTALLATION OR DECOMMISSIONING OF MONITORING WELLS

In accordance with the CCR Rule, a groundwater monitoring system has been installed to monitor the LCL1. The groundwater monitoring system consists of six groundwater monitoring wells screened in the uppermost aquifer and is displayed in **Figure 1**. No new monitoring wells were installed or decommissioned in 2025 as a part of the CCR Rule monitoring program for the LCL1. For more information on the groundwater monitoring well network, details are provided in the previous Annual Groundwater Monitoring Reports for the LCL1.

2.0 GROUNDWATER SAMPLING RESULTS AND DISCUSSION

The following sections discuss the sampling events completed for the LCL1 CCR Unit in 2025. **Table 2** below provides a summary of the groundwater samples collected in 2025 including the number of samples, the date of sample collection, and the monitoring program.

Table 2 – Summary of Groundwater Sampling Dates

Sampling Event	Groundwater Monitoring Wells						Monitoring Program
	BMW-1S	BMW-2S	MW-26	TMW-1	TMW-2	TMW-3	
	Date of Sample Collection						
February 2025 Verification Sampling	-	-	2/4/2025	-	2/4/2025	-	Detection
April 2025 Sampling Event	4/24/2025	4/24/2025	4/30/2025	4/28/2025	4/28/2025	4/28/2025	Detection
October 2025 Sampling Event	10/21/2025	10/21/2025	10/21/2025	10/20/2025	10/20/2025	10/20/2025	Detection
December 2025 Verification Sampling	-	-	-	-	12/8/2025	-	Detection
Total Number of Samples Collected	2	2	3	2	4	2	NA

Notes:

- 1) Detection Monitoring events tested for Appendix III Parameters.
- 2) Only analytes/wells that were detected above the prediction limit were tested during verification sampling.
- 3) No verification sampling associated with the April 2025 sampling event was required.
- 4) "-" No sample collected.
- 5) NA – Not applicable.

2.1 Detection Monitoring Program

A Detection Monitoring groundwater sampling event was completed October 28-31, 2024. Verification sampling and the statistical analysis to evaluate for SSIs for the October 2024 event were not completed until 2025 and are therefore included in this report. Detections of some Appendix III analytes above their respective prediction limits triggered a verification sampling event, which was completed on February 4, 2025. No SSIs were verified, and therefore, no Alternative Source Demonstration (ASD) was produced for this event. **Table 3** summarizes the results and the statistical analysis of the October 2024 Detection Monitoring event. Laboratory analytical data from the February 2025 verification sampling event and other sampling events conducted in 2025 are provided in **Appendix A**.

Detection Monitoring groundwater samples were collected April 24-30, 2025, and testing was completed for all Appendix III analytes, as well as major cations and anions. There were no initial exceedances observed in the April 2025 event and no verification sampling was necessary. **Table 4** summarizes the results and statistical analysis of the April 2025 Detection Monitoring event.

A Detection Monitoring groundwater sampling event was completed October 20-21, 2025 and testing was performed for all Appendix III analytes, as well as major cations and anions. As outlined in the Statistical Analysis Plan for the site, updates to the statistical limits should be completed once four to eight new sample results are available. During the statistical analysis of the October 2025 sampling event, the statistical limits used to determine an SSI were updated according to the Statistical Analysis Plan. An initial exceedance for chloride at TMW-2 triggered verification sampling, which was completed December 8, 2025 and verified chloride as an SSI. Both the October result (8.8 J) and December result (8.3 mg/L) only slightly exceeded the prediction limit of 7.471 mg/L. **Table 5** summarizes the results and statistical analysis of the October 2025 Detection Monitoring event. Historically, ASDs have been conducted for chloride SSIs at TMW-2, with the most recent chloride SSI and ASD for November 2023 results. An ASD for this SSI will be evaluated in 2026.

2.2 Groundwater Elevation, Flow Rate and Direction

To meet the requirements of §257.93(c), water level measurements were taken at all monitoring wells prior to the start of groundwater purging and sampling. Static water levels were measured within a 24-hour period in each monitoring well using an electronic water level indicator.

Groundwater elevations were used to generate potentiometric surface maps included in **Appendix B**. As shown on the potentiometric surface maps, groundwater flow direction within the uppermost aquifer is dynamic and influenced by seasonal changes in the water level in the nearby Missouri River. Water flows into and out of the alluvial aquifer because of fluctuating river water levels that produce “bank recharge” and “bank discharge” conditions. Overall, based on the potentiometric surface maps, a general flow direction from the south/southwest (bluffs area) to the north/northeast (Missouri River) is observed under normal river conditions. However, during periods of high river levels, groundwater flow can temporarily reverse, as was observed in April 2025. During these times of high river stage and temporary flow direction changes, horizontal groundwater gradients generally decrease, and little net movement of groundwater occurs. Based on quarterly water level measurements, groundwater across the LEC exhibited typical flow towards the Missouri River throughout much of 2025, except in April, when groundwater temporarily flowed to the southeast.

Groundwater flow direction and hydraulic gradient were estimated for the alluvial aquifer wells at the Labadie Energy Center (LEC) using commercially available software to evaluate data since 2016. Results from this assessment indicate that while groundwater flow direction is variable, the overall net groundwater flow in the alluvial aquifer at the LEC is from the bluffs toward the river. Horizontal gradients calculated by the program range from 0.0001 to 0.0009 feet/foot with an estimated net annual groundwater movement of approximately 18 feet per year in the prevailing downgradient direction. Groundwater flow at the LCL1 generally follows the site-wide flow rates and direction.

2.3 Sampling Issues

No notable sampling issues were encountered at the LCL1 in 2025.

3.0 ACTIVITIES PLANNED FOR 2026

Detection Monitoring is scheduled to continue on a semi-annual basis in the second and fourth quarters of 2026. An ASD for the SSI associated with the October 2025 sampling event will be evaluated in 2026.

Tables

Table 3
October 2024 Detection Monitoring Results
LCL1 - Utility Waste Landfill Cell 1
Labadie Energy Center, Franklin County, MO

ANALYTE	UNITS	BACKGROUND		GROUNDWATER MONITORING WELLS							
		BMW-1S	BMW-2S	Prediction Limit MW-26	MW-26	Prediction Limit TMW-1	TMW-1	Prediction Limit TMW-2	TMW-2	Prediction Limit TMW-3	TMW-3
October 2024 Detection Monitoring Event											
DATE	NA	10/28/2024	10/28/2024	NA	10/30/2024	NA	10/31/2024	NA	10/31/2024	NA	10/30/2024
pH	SU	6.47	6.92	6.685-7.272	6.67	6.58-7.16	6.82	6.547-7.255	6.73	6.602-7.053	6.68
BORON, TOTAL	µg/L	84.8 J	45.4 J	99.63	61.4 J	124.4	121	132.9	126	137.4	89.4 J
CALCIUM, TOTAL	µg/L	202,000	121,000	155,608	157,000	183,798	159,000	205,487	216,000	209,613	124,000
CHLORIDE, TOTAL	mg/L	4.5	1.8	14.49	17.7	5.559	3.7	7.142	10.3 J	9.478	2.4
FLUORIDE, TOTAL	mg/L	ND	ND	0.24	ND	0.2888	ND	0.2521	ND	0.2743	ND
SULFATE, TOTAL	mg/L	95.1	13.7	41.04	28.5	128	55	115.5	95.7	101	27.3
TOTAL DISSOLVED SOLIDS	mg/L	744	436	564.1	572	733.5	619	815.4	769	820.6	428
February 2025 Verification Sampling Event											
DATE	NA				2/4/2025				2/4/2025		
pH	SU				6.72						
BORON, TOTAL	µg/L										
CALCIUM, TOTAL	µg/L				137,000				192,000 J		
CHLORIDE, TOTAL	mg/L				8.4				6.8		
FLUORIDE, TOTAL	mg/L										
SULFATE, TOTAL	mg/L										
TOTAL DISSOLVED SOLIDS	mg/L				532						

NOTES:

1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units.
2. J - Result is an estimated value.
3. NA - Not applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered a non-detect. Values displayed as ND.
5. Prediction Limits calculated using Sanitas Software.
6. Values highlighted in green indicate an initial exceedance above the prediction limit that was not confirmed by Verification Sampling (not an SSI).
7. Only analytes/wells that were detected above the prediction limit were tested during Verification Sampling.

Prepared By: GTM
Checked By: JTR
Reviewed By: JSI

Table 4
April 2025 Detection Monitoring Results
LCL1 - Utility Waste Landfill Cell 1
Labadie Energy Center, Franklin County, MO

ANALYTE	UNITS	BACKGROUND		GROUNDWATER MONITORING WELLS							
		BMW-1S	BMW-2S	Prediction Limit MW-26	MW-26	Prediction Limit TMW-1	TMW-1	Prediction Limit TMW-2	TMW-2	Prediction Limit TMW-3	TMW-3
April 2025 Detection Monitoring Event											
DATE	NA	4/24/2025	4/24/2025	NA	4/30/2025	NA	4/28/2025	NA	4/28/2025	NA	4/28/2025
pH	SU	6.98	7.26	6.685-7.272	6.94	6.58-7.16	6.84	6.547-7.255	6.86	6.602-7.053	6.94
BORON, TOTAL	µg/L	103	56.7 J	99.63	76.6 J	124.4	107	132.9	104	137.4	83.1 J
CALCIUM, TOTAL	µg/L	204,000	143,000	155,608	136,000 J	183,798	158,000	205,487	193,000	209,613	121,000
CHLORIDE, TOTAL	mg/L	7.2	3.5	14.49	7.3	5.559	3.6 J	7.142	4.4 J	9.478	1.8 J
FLUORIDE, TOTAL	mg/L	ND	ND	0.24	ND	0.2888	ND	0.2521	ND	0.2743	ND
SULFATE, TOTAL	mg/L	77.8	71.6	41.04	29.3	128	55.1	115.5	73.8	101	25.6
TOTAL DISSOLVED SOLIDS	mg/L	831	531	564.1	522	733.5	588	815.4	767	820.6	455

NOTES:

1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units.
2. J - Result is an estimated value.
3. NA - Not applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is considered non-detect. Values displayed as ND.
5. Prediction Limits calculated using Sanitas Software.
6. There were no initial exceedances from the April 2025 Detection Monitoring sampling event, therefore no Verification Sampling was conducted.

Prepared By: JTR
Checked By: JDQ
Reviewed By: JSI

Table 5
October 2025 Detection Monitoring Results
LCL1 - Utility Waste Landfill Cell 1
Labadie Energy Center, Franklin County, MO

ANALYTE	UNITS	BACKGROUND		GROUNDWATER MONITORING WELLS							
		BMW-1S	BMW-2S	Prediction Limit MW-26	MW-26	Prediction Limit TMW-1	TMW-1	Prediction Limit TMW-2	TMW-2	Prediction Limit TMW-3	TMW-3
October 2025 Detection Monitoring Event											
DATE	NA	10/21/2025	10/21/2025	NA	10/21/2025	NA	10/20/2025	NA	10/20/2025	NA	10/20/2025
pH	SU	6.68	6.96	6.686-7.22	6.85	6.58-7.16	6.77	6.55-7.217	6.59	6.598-7.052	6.63
BORON, TOTAL	µg/L	83.9 J	51.5 J	96.91	66.1 J	126	116	141.4	125	140.4	92.7 J
CALCIUM, TOTAL	µg/L	191,000	130,000	162,000	128,000	182,682	141,000	210,713	202,000	210,306	130,000
CHLORIDE, TOTAL	mg/L	5.3	1.4	15.19	6.2	5.407	4.8	7.471	8.8 J	9.348	3.1
FLUORIDE, TOTAL	mg/L	0.075 J	0.14	0.24	0.12	0.33	0.14	0.2404	0.16	0.2404	0.17
SULFATE, TOTAL	mg/L	57.7	13.4	41.01	17.2	113.1	43.7	116.6	110	97.38	35.7
TOTAL DISSOLVED SOLIDS	mg/L	660	466	565.6	469	729.6	567	829	785	836.6	485
December 2025 Verification Sampling Event											
DATE	NA								12/8/2025		
pH	SU										
BORON, TOTAL	µg/L										
CALCIUM, TOTAL	µg/L										
CHLORIDE, TOTAL	mg/L								8.3		
FLUORIDE, TOTAL	mg/L										
SULFATE, TOTAL	mg/L										
TOTAL DISSOLVED SOLIDS	mg/L										

NOTES:

1. Unit Abbreviations: µg/L - micrograms per liter, mg/L - milligrams per liter, SU - standard units.
2. J - Result is an estimated value.
3. NA - Not applicable.
4. ND - Constituent was analyzed but was not detected above the Method Detection Limit (MDL) or the adjusted Practical Quantitation Limit (PQL) based on data validation and is consid non-detect. Values displayed as ND.
5. Prediction Limits calculated using Sanitas Software.
6. Values highlighted in yellow indicate a Statistically Significant Increase (SSI).
7. Only analytes/wells that were detected above the prediction limit were tested during Verification Sampling.

Prepared By: JTR
Checked By: JDQ
Reviewed By: JSI

Figures



TITLE
LABADIE ENERGY CENTER GROUNDWATER MONITORING PROGRAMS AND MONITORING WELL LOCATION MAP

- Legend**
- Approximate Property Boundary
 - Labadie Energy Center CCR Units**
 - LCPA - Closed Bottom Ash Surface Impoundment
 - LCPB - Closed Fly Ash Surface Impoundment
 - LCL1 - Utility Waste Landfill Cell 1
 - Monitoring Well Network**
 - Corrective Action Monitoring Well
 - LCPA Monitoring Well
 - LCPB Monitoring Well
 - LCPB and Corrective Action Monitoring Well
 - LCL1 Monitoring Well
 - LCL1 and Corrective Action Monitoring Well
 - Background Well Used for LCPA, Corrective Action, LCPB, and LCL1 Monitoring
 - Monitoring Well Used for Water Level Elevation Measurements Only

NOTES
 1. All locations and boundaries are approximate.

REFERENCES
 1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
 2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.



PROJECT
 CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
 AMEREN MISSOURI
 LABADIE ENERGY CENTER

	DESIGN	JSI	YYYY-MM-DD	2026-01-12
	PREPARED	JSI	PROJECT No.	23007-25
	REVIEW	GTM	FIGURE 1	
	APPROVED	MNH		

Path: C:\Users\JackRammason\RockSmith\Geotechnical\CC03007 - Ameren GW - Documents\400 - Drawings - Figures\4 - LEC4.1.2 - Production\Other Maps\Annual Report\Figure 1.aprx

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 11x17

Appendix A

Laboratory Analytical Data



February 18, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCL1-VERIFICATION
Pace Project No.: 60469039

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Arkansas Certification #: 88-00679

Illinois Certification #: 2000302023-6

Colorado Division of Oil and Public Safety

Iowa Certification #: 118

Kansas Field Laboratory Certification #: E-92587

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Missouri Inorganic Drinking Water Certification

Nevada Certification #: KS000212024-1

Oklahoma Certification #: 2023-073

Texas Certification #: T104704407-23-17

Utah Certification #: KS000212022-13

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SAMPLE SUMMARY

Project: AMEREN LCL1-VERIFICATION
Pace Project No.: 60469039

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60469039001	L-TMW-2	Water	02/04/25 13:34	02/06/25 05:45
60469039002	L-MW-26	Water	02/04/25 12:11	02/06/25 05:45
60469039003	L-UWL-DUP-1	Water	02/04/25 00:00	02/06/25 05:45
60469039004	L-UWL-FB-1	Water	02/04/25 12:28	02/06/25 05:45

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SAMPLE ANALYTE COUNT

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60469039001	L-TMW-2	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	TML	1	PASI-K
		EPA 300.0	AAA	1	PASI-K
60469039002	L-MW-26	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	TML	1	PASI-K
		EPA 300.0	AAA	1	PASI-K
60469039003	L-UWL-DUP-1	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	TML	1	PASI-K
		EPA 300.0	AAA	1	PASI-K
60469039004	L-UWL-FB-1	EPA 200.7	ARMN	1	PASI-K
		SM 2540C	TML	1	PASI-K
		EPA 300.0	AAA	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Sample: L-TMW-2 Lab ID: 60469039001 Collected: 02/04/25 13:34 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	192000	ug/L	200	26.9	1	02/10/25 08:27	02/11/25 21:04	7440-70-2	M1,P6
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	825	mg/L	50.0	50.0	1		02/10/25 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	6.8	mg/L	2.0	1.1	2		02/12/25 21:11	16887-00-6	

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Sample: L-MW-26 Lab ID: 60469039002 Collected: 02/04/25 12:11 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	137000	ug/L	200	26.9	1	02/10/25 08:27	02/11/25 18:11	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	532	mg/L	13.3	13.3	1		02/10/25 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	8.4	mg/L	1.0	0.53	1		02/12/25 14:01	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Sample: L-UWL-DUP-1 Lab ID: 60469039003 Collected: 02/04/25 00:00 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	138000	ug/L	200	26.9	1	02/10/25 08:27	02/11/25 18:12	7440-70-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	513	mg/L	13.3	13.3	1		02/10/25 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	8.4	mg/L	1.0	0.53	1		02/12/25 14:16	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Sample: L-UWL-FB-1 Lab ID: 60469039004 Collected: 02/04/25 12:28 Received: 02/06/25 05:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Calcium	180J	ug/L	200	26.9	1	02/10/25 08:27	02/11/25 18:20	7440-70-2	B
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Kansas City								
Total Dissolved Solids	6.0	mg/L	5.0	5.0	1		02/10/25 15:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	<0.53	mg/L	1.0	0.53	1		02/12/25 16:59	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

QC Batch:	924483	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60469039002, 60469039003, 60469039004		

METHOD BLANK: 3661259 Matrix: Water
 Associated Lab Samples: 60469039002, 60469039003, 60469039004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	ug/L	37.2J	200	26.9	02/11/25 17:35	

LABORATORY CONTROL SAMPLE: 3661260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9640	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661261 3661262

Parameter	Units	60469085001		3661262		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	ug/L	4910	10000	15100	14200	102	93	70-130	6	20	

MATRIX SPIKE SAMPLE: 3661263

Parameter	Units	60469010002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	125000	10000	103000	-217	70-130	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

QC Batch:	924484	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60469039001

METHOD BLANK: 3661264 Matrix: Water

Associated Lab Samples: 60469039001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	ug/L	28.8J	200	26.9	02/11/25 21:00	

LABORATORY CONTROL SAMPLE: 3661265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9740	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661266 3661267

Parameter	Units	60469039001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	192000	10000	10000	197000	196000	51	35	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3661268

Parameter	Units	60469213006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	122000	10000	128000	59	70-130	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661291 3661292

Parameter	Units	60469215002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	159000	10000	10000	160000	182000	4	233	70-130	13	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3661293 3661294

Parameter	Units	60469213004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	112000	10000	10000	120000	118000	82	62	70-130	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

QC Batch:	924571	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60469039001, 60469039002, 60469039003, 60469039004

METHOD BLANK: 3661620 Matrix: Water
 Associated Lab Samples: 60469039001, 60469039002, 60469039003, 60469039004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	02/10/25 15:11	

LABORATORY CONTROL SAMPLE: 3661621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	977	98	80-120	

SAMPLE DUPLICATE: 3661622

Parameter	Units	60469039001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	825	865	5	10	

SAMPLE DUPLICATE: 3661623

Parameter	Units	60469036001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	734	762	4	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

QC Batch:	924755	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60469039001, 60469039002, 60469039003, 60469039004

METHOD BLANK: 3662198 Matrix: Water
 Associated Lab Samples: 60469039001, 60469039002, 60469039003, 60469039004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	02/12/25 10:01	

LABORATORY CONTROL SAMPLE: 3662199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3662200 3662201

Parameter	Units	60469030001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chloride	mg/L	48.0	100	100	148	175	100	127	80-120	17	15	M1,R1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3662203 3662204

Parameter	Units	60469036001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chloride	mg/L	25.1	100	100	113	111	88	86	80-120	2	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3662206 3662207

Parameter	Units	60469039001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chloride	mg/L	6.8	10	10	15.9	16.0	91	92	80-120	1	15		

SAMPLE DUPLICATE: 3662202

Parameter	Units	60469030001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	48.0	48.2	0	15	

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QUALITY CONTROL DATA

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

SAMPLE DUPLICATE: 3662205

Parameter	Units	60469036001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	25.1	24.9	1	15	

SAMPLE DUPLICATE: 3662208

Parameter	Units	60469039001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	6.8	6.8	0	15	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60469039

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60469039001	L-TMW-2	EPA 200.7	924484	EPA 200.7	924512
60469039002	L-MW-26	EPA 200.7	924483	EPA 200.7	924511
60469039003	L-UWL-DUP-1	EPA 200.7	924483	EPA 200.7	924511
60469039004	L-UWL-FB-1	EPA 200.7	924483	EPA 200.7	924511
60469039001	L-TMW-2	SM 2540C	924571		
60469039002	L-MW-26	SM 2540C	924571		
60469039003	L-UWL-DUP-1	SM 2540C	924571		
60469039004	L-UWL-FB-1	SM 2540C	924571		
60469039001	L-TMW-2	EPA 300.0	924755		
60469039002	L-MW-26	EPA 300.0	924755		
60469039003	L-UWL-DUP-1	EPA 300.0	924755		
60469039004	L-UWL-FB-1	EPA 300.0	924755		

REPORT OF LABORATORY ANALYSIS

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WO#: 60469039



DC#_Title: ENV-FRM-LENE-0009_Sampl

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Rocks with Geology

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.6 Corr. Factor to 1 Corrected 1.7

Date and initials of person examining contents:

P 2/6/25

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: <u>BB127</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Rocksmith Geoenvironment, LLC	Report To:	Mark Haddock	Attention:	
Address:	5233 Roanoke Drive St. Charles, MO 63304	Copy To:	Jeffery Ingram, Grant Morey	Company Name:	Rocksmith
Email To:	mark.haddock@rocksmithgeo.com	Purchase Order No.:	COC #9	Address:	
Phone:	314-974-5678	Project Name:	Ameren LCL1 - Verification Sampling	Pace Quote Reference:	
Requested Due Date/TAT:	Standard	Project Number:	COC#9	Pace Project Manager:	Jamie Church
				Pace Profile #:	15856, line 1

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location: MO

STATE: MO

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WP AR OT TS	COLLECTED		SAMPLE TYPE (G=GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES	ANALYSIS TESTS	DATE	TIME	AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		COMPOSITE START	COMPOSITE END/GRAB											
1	L-TMW-2			G	WT	1	Unpreserved	Ca, Cl, TDS	2-4-26	1314	Rocksmith	2/15/15	1445	Received on Ice (Y/N) Sealed Cooler (Y/N) Custody (Y/N) Samples Intact (Y/N)
2	L-MW-26			G	WT	1			1211					
3	L-UWL-DUP-1			G	WT	1								
4	L-UWL-FB-1			G	WT	1								
5	L-UWL-MS-1			G	WT	1								
6	L-UWL-MSD-1			G	WT	1								
7				G	WT	1								
8				G	WT	1								
9				G	WT	1								
10				G	WT	1								
11				G	WT	1								
12				G	WT	1								

ADDITIONAL COMMENTS

Residual Chlorine (Y/N)

60469039
Pace Project No./ Lab I.D.

Collected @ L-TMW-2

Signature: *John Haddock*
DATE SIGNED: 08/05/15

Client: Rocksmith Geology

Profile/EZ # 15856-1

Site: _____

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG98	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP2N	BP3N	BP3F	BP3S	BP38	BP3Z	WPDU	ZPLC	Other
1	WT																														
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass	Plastic	Misc.
DG9B 40mL bisulfate clear vial	BP1B 1L NaOH plastic	I Wipe/Swab
DG9H 40mL HCl amber vial	BP1N 1L HNO3 plastic	SP5T 12.5mL Coliform Na Thiosulfate
DG9M 40mL MeOH clear vial	BP1S 1L H2SO4 plastic	ZPLC Ziploc Bag
DG9Q 40mL TSP amber vial	BP1U 1L unpreserved plastic	AF Air Filter
DG9S 40mL H2SO4 amber vial	BP1Z 1L NaOH, Zn Acetate	C Air Cassettes
DG9T 40mL Na Thio amber vial	BP2B 500mL NaOH plastic	R Terracore Kit
DG9U 40mL amber unpreserved	BP2N 500mL HNO3 plastic	U Summa Can
VG9H 40mL HCl clear vial	BP2S 500mL H2SO4 plastic	
VG9T 40mL Na Thio. clear vial	BP2U 500mL unpreserved plastic	
VG9U 40mL unpreserved clear vial	BP2Z 500mL NaOH, Zn Acetate	
BG1S 1liter H2SO4 clear glass	BP3B 250mL NaOH plastic	
BG1U 1liter unpres glass	BP3F 250mL HNO3 plastic - field filtered	WT Water
BG3H 250mL HCL Clear glass	BP3N 250mL HNO3 plastic	SL Solid
BG3U 250mL Unpres Clear glass	BP3U 250mL unpreserved plastic	NAL Ncn-aqueous Liquid
WGDU 16oz clear soil jar	BP3S 250mL H2SO4 plastic	OL Oil
	BP3Z 250mL NaOH, Zn Acetate	WP Wipe
	BP4U 125mL unpreserved plastic	DW Drinking Water
	BP4N 125mL HNO3 plastic	
	BP4S 125mL H2SO4 plastic	
	WPDU 16oz unpreserved plastic	

Work Order Number:

60469039



Memorandum

March 14, 2024

To: Project File
Rocksmith Geoengineering, LLC

Project Number: 23007-24

CC: Mark Haddock, Jeffrey Ingram

From: Grant Morey

Email: grant.morey@rocksmithgeo.com

RE: **Data Validation Summary, Labadie Energy Center – LCL1 Verification – Data Package 60469039**

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a matrix spike/matrix spike duplicate (MS/MSD) criterion was not met, the associated sample result was qualified as an estimate (J, J+ for estimates based high, and J- for estimates based low).
- When a compound was detected in a blank (i.e. method, field), and the blank comparison criterion was not met, associated sample results were qualified as estimates (J) or non-detects (U).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
 Project Name: Ameren LEC - LCL1 Verification
 Reviewer: G. Morey

Project Manager: J. Ingram
 Project Number: 23007-24
 Validation Date: 03/14/2025

Laboratory: Pace Analytical Services SDG #: 60469039
 Analytical Method (type and no.): SM2540C (TDS); EPA 300.0 (Chloride), 200.7 (Metals)
 Matrix: Air Soil/Sed. Water Waste
 Sample Names L-TMW-2, L-MW-26, L-UWL-DUP-1, L-UWL-FB-1

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>2/4/2025</u>
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>GTM/JTR</u>
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
d) Sample depth indicated (Soils)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u></u>
e) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Grab</u>
f) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See notes.</u>
g) Field parameters collected (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH, Sp.Cond, ORP, Temp, DO, Turb</u>
h) Field Calibration within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See notes.</u>
i) Notations of unacceptable field conditions/performances from field logs or field notes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>
j) Does the laboratory narrative indicate deficiencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>No lab narrative.</u>
Note Deficiencies: <u></u>				

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
b) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
c) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
c) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
d) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
e) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
f) Were any sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See Notes</u>
g) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes
b) Were analytes detected in the field blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes
c) Were analytes detected in the equipment blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were the proper analytes included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L-UWL-DUP-1 @ L-MW-26
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fluoride RPD: 0%
b) Were field dup. precision criteria met (note RPD)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TDS RPD: 6%; Calcium RPD: 1%
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TDS Max RPD: 10%
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) Were lab dup. precision criteria met (note RPD)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Was the %D within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Was MSD accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were MS/MSD precision criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes

Comments/Notes:

General:

Chloride diluted in one sample, no qualification necessary.

Method Blanks:

3661259: calcium (37.2J), associated with samples -002, -003 and -004. Sample -004 result less than 10x blank and reporting limit, qualified as non-detect at RL. Samples -002 and -003 result > reporting limit and 10x blank, no qualification necessary.

3661264: calcium (28.8J), associated with sample -001. Result > RL and 10x blank, no qualification necessary.

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Field Blank:

L-UWL-FB-1 @ L-MW-26: calcium (180J), TDS (6.0). Results > reporting limit and 10x blank, no qualification necessary.

MS/MSD:

3661263: MS recovery low for calcium, associated with unrelated sample. No qualification necessary.

3661266/3661267: MS/MSD recovery low for calcium, RPD within control limit. Associated with sample -001, result qualified as estimate.

3661268: MS recovery low for calcium. Associated with unrelated sample, no qualification necessary.

3661291/3661292: MS recovery low and MSD recovery high for calcium, RPD within control limits. Associated with unrelated sample, no qualification necessary.

3661293/3661294: MSD recovery low for calcium and RPD exceeds control limits. Associated with unrelated sample, no qualification necessary.

3662200/3662201: MSD recovery high for chloride and RPD exceeds control limits. Associated with unrelated sample, no qualification necessary.



October 30, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCL1
Pace Project No.: 60474050

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory between April 26, 2025 and May 02, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

Report revised to remove parameters not required under the CCR Rule

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren



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CERTIFICATIONS

Project: AMEREN LCL1

Pace Project No.: 60474050

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

EPA Lab Code: KS00021

Arkansas Certification #: 88-00679

Illinois Certification #: 200030

Colorado Division of Oil and Public Safety

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Oklahoma Certification #: 9205

Texas Certification #: T104704407

Utah Certification #: KS0002125-15

UDSA_CA : #KS-SC-DOM-25-01

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SAMPLE SUMMARY

Project: AMEREN LCL1

Pace Project No.: 60474050

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60474050001	L-TMW-1	Water	04/28/25 11:00	04/30/25 07:30
60474050002	L-TMW-2	Water	04/28/25 09:20	04/30/25 07:30
60474050003	L-TMW-3	Water	04/28/25 12:05	04/30/25 07:30
60474050004	L-UWL-DUP-1	Water	04/28/25 00:00	04/30/25 07:30
60474050005	L-UWL-FB-1	Water	04/28/25 12:10	04/30/25 07:30
60474050006	L-UML-MS-1	Water	04/28/25 09:20	04/30/25 07:30
60474050007	L-UML-MSD-1	Water	04/28/25 09:20	04/30/25 07:30
60473874001	L-BMW-1S	Water	04/24/25 11:50	04/26/25 06:47
60473874002	L-BMW-2S	Water	04/24/25 14:15	04/26/25 06:47
60473874028	L-MW-26	Water	04/30/25 12:22	05/02/25 07:00

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SAMPLE ANALYTE COUNT

Project: AMEREN LCL1

Pace Project No.: 60474050

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60474050001	L-TMW-1	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60474050002	L-TMW-2	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60474050003	L-TMW-3	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60474050004	L-UWL-DUP-1	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60474050005	L-UWL-FB-1	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874001	L-BMW-1S	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874002	L-BMW-2S	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60473874028	L-MW-26	EPA 200.7	ARMN	7	PASI-K
		SM 2320B	EFM	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		EPA 300.0	MLD	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-TMW-1 Lab ID: 60474050001 Collected: 04/28/25 11:00 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	107	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:47	7440-42-8	
Calcium	158000	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:47	7440-70-2	
Iron	48.9J	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:47	7439-89-6	
Magnesium	42000	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:47	7439-95-4	
Manganese	1740	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:47	7439-96-5	
Potassium	5080	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:47	7440-09-7	
Sodium	10000	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:47	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	515	mg/L	20.0	10.5	1		05/12/25 14:02		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	588	mg/L	13.3	13.3	1		05/05/25 14:47		MW
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	3.6	mg/L	1.0	0.53	1		05/22/25 22:58	16887-00-6	B
Fluoride	<0.12	mg/L	0.20	0.12	1		05/22/25 22:58	16984-48-8	
Sulfate	55.1	mg/L	10.0	5.5	10		05/22/25 23:12	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-TMW-2 **Lab ID: 60474050002** Collected: 04/28/25 09:20 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	104	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:49	7440-42-8	
Calcium	193000	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:49	7440-70-2	M1,P6
Iron	1580	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:49	7439-89-6	
Magnesium	43600	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:49	7439-95-4	
Manganese	3130	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:49	7439-96-5	
Potassium	6720	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:49	7440-09-7	
Sodium	10500	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:49	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	603	mg/L	20.0	10.5	1		05/12/25 14:10		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	767	mg/L	13.3	13.3	1		05/05/25 14:48		MW
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	4.4	mg/L	1.0	0.53	1		05/22/25 17:27	16887-00-6	B
Fluoride	<0.12	mg/L	0.20	0.12	1		05/22/25 17:27	16984-48-8	
Sulfate	73.8	mg/L	20.0	11.0	20		05/22/25 17:41	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-TMW-3 Lab ID: 60474050003 Collected: 04/28/25 12:05 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	83.1J	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:54	7440-42-8	
Calcium	121000	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:54	7440-70-2	
Iron	85.2	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:54	7439-89-6	
Magnesium	21900	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:54	7439-95-4	
Manganese	70.3	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:54	7439-96-5	
Potassium	5230	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:54	7440-09-7	
Sodium	5240	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:54	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	365	mg/L	20.0	10.5	1		05/12/25 14:37		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	455	mg/L	10.0	10.0	1		05/05/25 14:48		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	1.8	mg/L	1.0	0.53	1		05/22/25 23:26	16887-00-6	B
Fluoride	<0.12	mg/L	0.20	0.12	1		05/22/25 23:26	16984-48-8	
Sulfate	25.6	mg/L	10.0	5.5	10		05/22/25 23:40	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-UWL-DUP-1 Lab ID: 60474050004 Collected: 04/28/25 00:00 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	108	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 11:58	7440-42-8	
Calcium	155000	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 11:58	7440-70-2	
Iron	32.7J	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 11:58	7439-89-6	
Magnesium	41300	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 11:58	7439-95-4	
Manganese	1810	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 11:58	7439-96-5	
Potassium	5020	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 11:58	7440-09-7	
Sodium	9870	ug/L	500	115	1	05/01/25 13:06	05/23/25 11:58	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	517	mg/L	20.0	10.5	1		05/12/25 14:44		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	613	mg/L	13.3	13.3	1		05/05/25 14:48		MW
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	3.6	mg/L	1.0	0.53	1		05/22/25 23:54	16887-00-6	B
Fluoride	<0.12	mg/L	0.20	0.12	1		05/22/25 23:54	16984-48-8	
Sulfate	59.4	mg/L	20.0	11.0	20		05/23/25 00:08	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-UWL-FB-1 Lab ID: 60474050005 Collected: 04/28/25 12:10 Received: 04/30/25 07:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	<6.4	ug/L	100	6.4	1	05/01/25 13:06	05/23/25 12:03	7440-42-8	
Calcium	<26.9	ug/L	200	26.9	1	05/01/25 13:06	05/23/25 12:03	7440-70-2	
Iron	11.3J	ug/L	50.0	9.1	1	05/01/25 13:06	05/23/25 12:03	7439-89-6	
Magnesium	<20.1	ug/L	50.0	20.1	1	05/01/25 13:06	05/23/25 12:03	7439-95-4	
Manganese	<0.39	ug/L	5.0	0.39	1	05/01/25 13:06	05/23/25 12:03	7439-96-5	
Potassium	<69.7	ug/L	500	69.7	1	05/01/25 13:06	05/23/25 12:03	7440-09-7	
Sodium	<115	ug/L	500	115	1	05/01/25 13:06	05/23/25 12:03	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	<10.5	mg/L	20.0	10.5	1		05/12/25 14:48		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	9.0	mg/L	5.0	5.0	1		05/05/25 14:48		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	0.59J	mg/L	1.0	0.53	1		05/22/25 22:31	16887-00-6	B
Fluoride	<0.12	mg/L	0.20	0.12	1		05/22/25 22:31	16984-48-8	
Sulfate	<0.55	mg/L	1.0	0.55	1		05/22/25 22:31	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-BMW-1S **Lab ID: 60473874001** Collected: 04/24/25 11:50 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	103	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:18	7440-42-8	
Calcium	204000	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:18	7440-70-2	
Iron	25700	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:18	7439-89-6	
Magnesium	51800	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:18	7439-95-4	
Manganese	2500	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:18	7439-96-5	
Potassium	5780	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:18	7440-09-7	
Sodium	20200	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:18	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	668	mg/L	20.0	10.5	1		05/08/25 14:11		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	831	mg/L	13.3	13.3	1		05/01/25 13:34		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	7.2	mg/L	1.0	0.53	1		05/15/25 17:20	16887-00-6	
Fluoride	<0.12	mg/L	0.20	0.12	1		05/15/25 17:20	16984-48-8	
Sulfate	77.8	mg/L	10.0	5.5	10		05/15/25 17:34	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-BMW-2S Lab ID: 60473874002 Collected: 04/24/25 14:15 Received: 04/26/25 06:47 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	56.7J	ug/L	100	6.4	1	04/30/25 07:50	05/23/25 13:20	7440-42-8	
Calcium	143000	ug/L	200	26.9	1	04/30/25 07:50	05/23/25 13:20	7440-70-2	
Iron	<9.1	ug/L	50.0	9.1	1	04/30/25 07:50	05/23/25 13:20	7439-89-6	
Magnesium	23000	ug/L	50.0	20.1	1	04/30/25 07:50	05/23/25 13:20	7439-95-4	
Manganese	2.6J	ug/L	5.0	0.39	1	04/30/25 07:50	05/23/25 13:20	7439-96-5	
Potassium	6070	ug/L	500	69.7	1	04/30/25 07:50	05/23/25 13:20	7440-09-7	
Sodium	4550	ug/L	500	115	1	04/30/25 07:50	05/23/25 13:20	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	372	mg/L	20.0	10.5	1		05/08/25 14:17		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	531	mg/L	10.0	10.0	1		05/01/25 13:34		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	3.5	mg/L	1.0	0.53	1		05/15/25 17:48	16887-00-6	
Fluoride	<0.12	mg/L	0.20	0.12	1		05/15/25 17:48	16984-48-8	
Sulfate	71.6	mg/L	10.0	5.5	10		05/15/25 18:02	14808-79-8	

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60474050

Sample: L-MW-26 Lab ID: 60473874028 Collected: 04/30/25 12:22 Received: 05/02/25 07:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	76.6J	ug/L	100	6.4	1	05/06/25 08:42	05/22/25 20:17	7440-42-8	
Calcium	136000	ug/L	200	26.9	1	05/06/25 08:42	05/22/25 20:17	7440-70-2	M1,P6
Iron	34.3J	ug/L	50.0	9.1	1	05/06/25 08:42	05/22/25 20:17	7439-89-6	B
Magnesium	24900	ug/L	50.0	20.1	1	05/06/25 08:42	05/22/25 20:17	7439-95-4	
Manganese	151	ug/L	5.0	0.39	1	05/06/25 08:42	05/22/25 20:17	7439-96-5	
Potassium	4740	ug/L	500	69.7	1	05/06/25 08:42	05/22/25 20:17	7440-09-7	
Sodium	10900	ug/L	500	115	1	05/06/25 08:42	05/22/25 20:17	7440-23-5	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	432	mg/L	20.0	10.5	1		05/14/25 19:37		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	522	mg/L	10.0	10.0	1		05/07/25 15:12		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City							
Chloride	7.3	mg/L	1.0	0.53	1		05/23/25 18:14	16887-00-6	
Fluoride	<0.12	mg/L	0.20	0.12	1		05/23/25 18:14	16984-48-8	
Sulfate	29.3	mg/L	20.0	11.0	20		05/23/25 18:55	14808-79-8	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch:	933297	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874001, 60473874002

METHOD BLANK: 3697620 Matrix: Water

Associated Lab Samples: 60473874001, 60473874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	<6.4	100	6.4	05/23/25 12:51	
Calcium	ug/L	<26.9	200	26.9	05/23/25 12:51	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 12:51	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 12:51	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 12:51	
Potassium	ug/L	<69.7	500	69.7	05/23/25 12:51	
Sodium	ug/L	<115	500	115	05/23/25 12:51	

LABORATORY CONTROL SAMPLE: 3697621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	914	91	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Iron	ug/L	10000	9960	100	85-115	
Magnesium	ug/L	10000	9700	97	85-115	
Manganese	ug/L	1000	984	98	85-115	
Potassium	ug/L	10000	9760	98	85-115	
Sodium	ug/L	10000	9640	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697622 3697623

Parameter	Units	60473868003		3697623		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	11800	1000	1000	12600	12600	78	78	70-130	0	20
Calcium	ug/L	104000	10000	10000	112000	112000	81	80	70-130	0	20
Iron	ug/L	17.2J	10000	10000	9880	9950	99	99	70-130	1	20
Magnesium	ug/L	36.2J	10000	10000	9420	9440	94	94	70-130	0	20
Manganese	ug/L	12.2	1000	1000	982	999	97	99	70-130	2	20
Potassium	ug/L	17200	10000	10000	26700	27000	95	97	70-130	1	20
Sodium	ug/L	96600	10000	10000	104000	104000	79	78	70-130	0	20

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch:	933650	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

METHOD BLANK: 3698971 Matrix: Water

Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	<6.4	100	6.4	05/23/25 11:23	
Calcium	ug/L	<26.9	200	26.9	05/23/25 11:23	
Iron	ug/L	<9.1	50.0	9.1	05/23/25 11:23	
Magnesium	ug/L	<20.1	50.0	20.1	05/23/25 11:23	
Manganese	ug/L	<0.39	5.0	0.39	05/23/25 11:23	
Potassium	ug/L	<69.7	500	69.7	05/23/25 11:23	
Sodium	ug/L	<115	500	115	05/23/25 11:23	

LABORATORY CONTROL SAMPLE: 3698972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	920	92	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Iron	ug/L	10000	9990	100	85-115	
Magnesium	ug/L	10000	9760	98	85-115	
Manganese	ug/L	1000	994	99	85-115	
Potassium	ug/L	10000	9770	98	85-115	
Sodium	ug/L	10000	9730	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3698973 3698974

Parameter	Units	60474050002		60474050003		3698973		3698974		% Rec Limits	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Boron	ug/L	104	1000	1000	1000	1040	1040	94	93	70-130	0	20
Calcium	ug/L	193000	10000	10000	10000	202000	196000	89	28	70-130	3	20 M1
Iron	ug/L	1580	10000	10000	10000	12100	11900	105	103	70-130	1	20
Magnesium	ug/L	43600	10000	10000	10000	53300	51900	97	83	70-130	3	20
Manganese	ug/L	3130	1000	1000	1000	4070	4010	95	89	70-130	1	20
Potassium	ug/L	6720	10000	10000	10000	16800	16700	101	99	70-130	1	20
Sodium	ug/L	10500	10000	10000	10000	20300	20000	98	95	70-130	2	20

MATRIX SPIKE SAMPLE: 3698975

Parameter	Units	60474050003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	83.1J	1000	1030	95	70-130	
Calcium	ug/L	121000	10000	130000	91	70-130	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

MATRIX SPIKE SAMPLE:		3698975					
Parameter	Units	60474050003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	85.2	10000	10200	101	70-130	
Magnesium	ug/L	21900	10000	31700	97	70-130	
Manganese	ug/L	70.3	1000	1080	101	70-130	
Potassium	ug/L	5230	10000	15500	103	70-130	
Sodium	ug/L	5240	10000	15200	100	70-130	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 934063

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874028

METHOD BLANK: 3700770

Matrix: Water

Associated Lab Samples: 60473874028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	<6.4	100	6.4	05/22/25 19:50	
Calcium	ug/L	34.5J	200	26.9	05/22/25 19:50	
Iron	ug/L	20.1J	50.0	9.1	05/22/25 19:50	
Magnesium	ug/L	<20.1	50.0	20.1	05/22/25 19:50	
Manganese	ug/L	1.0J	5.0	0.39	05/22/25 19:50	
Potassium	ug/L	<69.7	500	69.7	05/22/25 19:50	
Sodium	ug/L	<115	500	115	05/22/25 19:50	

LABORATORY CONTROL SAMPLE: 3700771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	883	88	85-115	
Calcium	ug/L	10000	9850	98	85-115	
Iron	ug/L	10000	9810	98	85-115	
Magnesium	ug/L	10000	9580	96	85-115	
Manganese	ug/L	1000	994	99	85-115	
Potassium	ug/L	10000	9470	95	85-115	
Sodium	ug/L	10000	9630	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3700773 3700774

Parameter	Units	60473870005		3700774		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	ug/L	299	1000	1200	1200	90	90	70-130	0	20	
Calcium	ug/L	95200	10000	105000	103000	99	83	70-130	2	20	
Iron	ug/L	13900	10000	23900	24000	100	101	70-130	0	20	
Magnesium	ug/L	17600	10000	27100	26700	96	92	70-130	1	20	
Manganese	ug/L	1070	1000	2010	2040	94	97	70-130	2	20	
Potassium	ug/L	4170	10000	13700	14000	96	98	70-130	2	20	
Sodium	ug/L	5790	10000	15500	15500	97	97	70-130	0	20	

MATRIX SPIKE SAMPLE: 3700775

Parameter	Units	60473874028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	76.6J	1000	964	89	70-130	
Calcium	ug/L	136000	10000	143000	62	70-130 M1	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

MATRIX SPIKE SAMPLE:		3700775					
Parameter	Units	60473874028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	34.3J	10000	9780	97	70-130	
Magnesium	ug/L	24900	10000	33700	89	70-130	
Manganese	ug/L	151	1000	1130	98	70-130	
Potassium	ug/L	4740	10000	14400	97	70-130	
Sodium	ug/L	10900	10000	20200	93	70-130	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 934386

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874001, 60473874002

METHOD BLANK: 3702446

Matrix: Water

Associated Lab Samples: 60473874001, 60473874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/08/25 13:29	

LABORATORY CONTROL SAMPLE: 3702447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3702448

Parameter	Units	60473866001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	661	657	0	10	

SAMPLE DUPLICATE: 3702449

Parameter	Units	60474532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	253	253	0	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch:	934756	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60474050001, 60474050002, 60474050003, 60474050004, 60474050005		

METHOD BLANK: 3704361 Matrix: Water
 Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/12/25 11:58	

LABORATORY CONTROL SAMPLE: 3704362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	90-110	

SAMPLE DUPLICATE: 3704363

Parameter	Units	60473941001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	231	229	1	10	

SAMPLE DUPLICATE: 3704364

Parameter	Units	60473953001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	33.8	33.0	2	10	

SAMPLE DUPLICATE: 3704365

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	603	616	2	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 935136

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874028

METHOD BLANK: 3706237

Matrix: Water

Associated Lab Samples: 60473874028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	05/14/25 19:11	

LABORATORY CONTROL SAMPLE: 3706238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	512	102	90-110	

SAMPLE DUPLICATE: 3706239

Parameter	Units	60473870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	319	319	0	10	

SAMPLE DUPLICATE: 3706240

Parameter	Units	60474215001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	126	130	3	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 933633	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874001, 60473874002

METHOD BLANK: 3698856 Matrix: Water

Associated Lab Samples: 60473874001, 60473874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/01/25 13:33	

LABORATORY CONTROL SAMPLE: 3698857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 3698858

Parameter	Units	60473868003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	795	805	1	10	

SAMPLE DUPLICATE: 3698859

Parameter	Units	60473874005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	529	530	0	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch:	933971	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

METHOD BLANK: 3700463 Matrix: Water
 Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/05/25 14:45	

LABORATORY CONTROL SAMPLE: 3700464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1050	105	80-120	

SAMPLE DUPLICATE: 3700465

Parameter	Units	60473736001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12800	12800	1	10	H1

SAMPLE DUPLICATE: 3700466

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	767	724	6	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 934269

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874028

METHOD BLANK: 3701859

Matrix: Water

Associated Lab Samples: 60473874028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	05/07/25 15:10	

LABORATORY CONTROL SAMPLE: 3701860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1030	103	80-120	

SAMPLE DUPLICATE: 3701861

Parameter	Units	60474170001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3270	3230	1	10	

SAMPLE DUPLICATE: 3701862

Parameter	Units	60473870005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	370	377	2	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 935142

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874001, 60473874002

METHOD BLANK: 3706253

Matrix: Water

Associated Lab Samples: 60473874001, 60473874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/15/25 05:11	
Fluoride	mg/L	<0.12	0.20	0.12	05/15/25 05:11	
Sulfate	mg/L	<0.55	1.0	0.55	05/15/25 05:11	

LABORATORY CONTROL SAMPLE: 3706254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706255 3706256

Parameter	Units	60473868003		3706255		3706256		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	27.6	100	100	113	114	85	86	80-120	1	15		
Fluoride	mg/L	<0.12	2.5	2.5	2.2	2.5	87	99	80-120	13	15		
Sulfate	mg/L	407	250	250	669	657	105	100	80-120	2	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3706257 3706258

Parameter	Units	60473874005		3706257		3706258		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	3.8	5	5	8.5	8.0	93	85	80-120	5	15		
Fluoride	mg/L	<0.12	2.5	2.5	2.7	2.4	106	94	80-120	11	15		
Sulfate	mg/L	20.7	10	10	30.7	30.5	100	98	80-120	1	15		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch:	936168	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

METHOD BLANK: 3711067 Matrix: Water
 Associated Lab Samples: 60474050001, 60474050002, 60474050003, 60474050004, 60474050005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.59J	1.0	0.53	05/22/25 16:59	
Fluoride	mg/L	<0.12	0.20	0.12	05/22/25 16:59	
Sulfate	mg/L	<0.55	1.0	0.55	05/22/25 16:59	

LABORATORY CONTROL SAMPLE: 3711068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711069 3711070

Parameter	Units	60474050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	5	5	9.5	8.8	101	88	80-120	7	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.7	2.4	107	93	80-120	14	15	
Sulfate	mg/L	73.8	100	100	176	179	102	105	80-120	2	15	

MATRIX SPIKE SAMPLE: 3711071

Parameter	Units	60474050005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.59J	5	4.9	85	80-120	
Fluoride	mg/L	<0.12	2.5	2.5	101	80-120	
Sulfate	mg/L	<0.55	5	4.9	93	80-120	

SAMPLE DUPLICATE: 3711201

Parameter	Units	60474050002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	4.4	4.3	2	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	73.8	72.6	2	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60474050

QC Batch: 936176

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60473874028

METHOD BLANK: 3711108

Matrix: Water

Associated Lab Samples: 60473874028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.53	1.0	0.53	05/23/25 06:08	
Fluoride	mg/L	<0.12	0.20	0.12	05/23/25 06:08	
Sulfate	mg/L	<0.55	1.0	0.55	05/23/25 06:08	

LABORATORY CONTROL SAMPLE: 3711109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	95	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711236 3711237

Parameter	Units	60473874017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	5	5	14.5	15.4	92	109	80-120	6	15	
Fluoride	mg/L	<0.12	2.5	2.5	2.4	2.8	95	109	80-120	13	15	
Sulfate	mg/L	112	100	100	208	208	96	96	80-120	0	15	

MATRIX SPIKE SAMPLE: 3711239

Parameter	Units	60473874022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	<0.53	5	4.8	97	80-120	
Fluoride	mg/L	<0.12	2.5	2.6	103	80-120	
Sulfate	mg/L	<0.55	5	5.0	95	80-120	

SAMPLE DUPLICATE: 3711238

Parameter	Units	60473874017 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	mg/L	9.9	9.9	0	15	
Fluoride	mg/L	<0.12	<0.12		15	
Sulfate	mg/L	112	109	3	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AMEREN LCL1

Pace Project No.: 60474050

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H1 Analysis conducted outside the EPA method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MW Due to matrix interference, achieving a constant weight is not possible.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCL1

Pace Project No.: 60474050

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60473874001	L-BMW-1S	EPA 200.7	933297	EPA 200.7	933530
60473874002	L-BMW-2S	EPA 200.7	933297	EPA 200.7	933530
60474050001	L-TMW-1	EPA 200.7	933650	EPA 200.7	933723
60474050002	L-TMW-2	EPA 200.7	933650	EPA 200.7	933723
60474050003	L-TMW-3	EPA 200.7	933650	EPA 200.7	933723
60474050004	L-UWL-DUP-1	EPA 200.7	933650	EPA 200.7	933723
60474050005	L-UWL-FB-1	EPA 200.7	933650	EPA 200.7	933723
60473874028	L-MW-26	EPA 200.7	934063	EPA 200.7	934134
60473874001	L-BMW-1S	SM 2320B	934386		
60473874002	L-BMW-2S	SM 2320B	934386		
60474050001	L-TMW-1	SM 2320B	934756		
60474050002	L-TMW-2	SM 2320B	934756		
60474050003	L-TMW-3	SM 2320B	934756		
60474050004	L-UWL-DUP-1	SM 2320B	934756		
60474050005	L-UWL-FB-1	SM 2320B	934756		
60473874028	L-MW-26	SM 2320B	935136		
60473874001	L-BMW-1S	SM 2540C	933633		
60473874002	L-BMW-2S	SM 2540C	933633		
60474050001	L-TMW-1	SM 2540C	933971		
60474050002	L-TMW-2	SM 2540C	933971		
60474050003	L-TMW-3	SM 2540C	933971		
60474050004	L-UWL-DUP-1	SM 2540C	933971		
60474050005	L-UWL-FB-1	SM 2540C	933971		
60473874028	L-MW-26	SM 2540C	934269		
60473874001	L-BMW-1S	EPA 300.0	935142		
60473874002	L-BMW-2S	EPA 300.0	935142		
60474050001	L-TMW-1	EPA 300.0	936168		
60474050002	L-TMW-2	EPA 300.0	936168		
60474050003	L-TMW-3	EPA 300.0	936168		
60474050004	L-UWL-DUP-1	EPA 300.0	936168		
60474050005	L-UWL-FB-1	EPA 300.0	936168		
60473874028	L-MW-26	EPA 300.0	936176		

REPORT OF LABORATORY ANALYSIS

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WO#: 60474050



DC#_Title: ENV-FRM-LENE-0009_Sample C

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Rocksmitz Gaven 9

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 3.7/1.9/4.5 Corr. Factor 10.1 Corrected 3.7/2.0/4.5

Date and initials of person examining contents:

Temperature should be above freezing to 6°C 14.8

14.9

pu 4/30/25

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Rocksmit h bevens

Profile # *3244557*

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other
1	WT												2						1			2	1							
2												6							3			1	3							
3												2							1			1	1							
4												2							1			1	1							
5												2							1			1	1							
6												2							1			1	1							
7																			1			1	1							
8																			1			1	1							
9																			1			1	1							
10																			1			1	1							
11																			1			1	1							
12																			1			1	1							

(ms/msd)
(Only Log RAD)

Container Codes

Glass	Plastic	Misc.
DG9B 40mL bisulfate clear vial	BP1B 1L NaOH plastic	I Wipe/Swab
DG9H 40mL HCl amber vial	BP1N 1L HNO3 plastic	SP5T 120mL Coliform Na Thiosulfate
DG9M 40mL MeOH clear vial	BP1S 1L H2SO4 plastic	ZPLC Ziploc Bag
DG9Q 40mL TSP amber vial	BP1U 1L unpreserved plastic	AF Air Filter
DG9S 40mL H2SO4 amber vial	BP1Z 1L NaOH, Zn Acetate	C Air Cassettes
DG9T 40mL Na Thio amber vial	BP2B 500mL NaOH plastic	R Terracore Kit
DG9U 40mL amber unpreserved	BP2N 500mL HNO3 plastic	U Summa Can
VG9H 40mL HCl clear vial	BP2S 500mL H2SO4 plastic	
VG9T 40mL Na Thio. clear vial	BP2U 500mL unpreserved plastic	
VG9U 40mL unpreserved clear vial	BP2Z 500mL NaOH, Zn Acetate	
BG1S 1liter H2SO4 clear glass	BP3B 250mL NaOH plastic	
BG1U 1liter unpres glass	BP3F 250mL HNO3 plastic - field filtered	WT Water
BG3H 250mL HCL Clear glass	BP3N 250mL HNO3 plastic	SL Solid
BG3U 250mL Unpres Clear glass	BP3U 250mL unpreserved plastic	NAL Non-aqueous Liquid
WGDU 16oz clear soil jar	BP3S 250mL H2SO4 plastic	OL OIL
	BP3Z 250mL NaOH, Zn Acetate	WP Wipe
	BP4U 125mL unpreserved plastic	DW Drinking Water
	BP4N 125mL HNO3 plastic	
	BP4S 125mL H2SO4 plastic	
	WPDU 16oz unpreserved plastic	

Work Order Number: *600474050*

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **Rocksouth Geoeengineering, LLC.**
 Street Address: **2320 Creve Coeur Mill Road, Maryland Heights, MO 63043**
 Contact/Report To: **Mark Haddock**
 Phone #: **314-974-6578**
 E-Mail: **mark.haddock@rocksmithgeo.com**
 Cc E-Mail:

Customer Project #: **COCH 4**
 Project Name: **AMEREN LCL1**

Invoice To: **Mark Haddock**
 Invoice E-Mail: **mark.haddock@rocksmithgeo.com**
 Purchase Order # (if applicable):
 Quote #:

Time Zone Collected: [] AK [] MT [] CT [] ET
 Data Deliverables: [] JAK [] PT [] MT [] CT [] ET
 Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Date Results Requested:
 Field Filtered (if applicable): [] Yes [] No
 Analysis:

Customer Sample ID	Matrix *	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine Results	Units
		Date	Time	Date	Time			
L-TMW-1	WT							
L-TMW-2	WT							
L-TMW-3	WT							
L-UWL-DUP-1	WT							
L-UWL-FB-1	WT							
L-UWL-MS-1	WT							
L-UWL-MSD-1	WT							
L-MW-26	WT			4-30-25	1222	6		

Additional Instructions from Pace*:
 * App III and Cat/An Metals - EPA 200.7: Fe, Mg, Mn, K, Na, Ca, B
 ** App IV Metals - EPA 200.7: Ba, Be, Co, Pb, Li, Mo & 200.8 Metals - Sb, As, Cd, Cr, Se, Ti + 47470 Hg
 *** UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Collected By: **Grant Morley**
 Signature: *[Signature]*

Received by/Company: **Rocksouth**
 Date/Time: **5-1-25/0800**
 Signature: *[Signature]*

Received by/Company: **AMEREN**
 Date/Time: **5-1-25/0800**
 Signature: *[Signature]*

WO#: 60474050

60474050

Specify Container Size **
 1 1 3 3 3 3 3 1

Identify Container Preservative Type ***
 1 1 3 2 2 2 3 2

Chloride/Fluoride/Sulfate	TDS / Alkalinity	COD / TOC	App III and Cat/An Metals (200.7)*	Appendix IV Metals (200.7/200.8/7470)*	UWL Metals (200.7)***	TOX	Radium 226 & Radium 228

Proj. Mgr: **Jamie Church**
 AcctNum / Client ID:
 Table #:
 Profile / Template: **15857**
 Prelog / Bottle Ord. ID: **EZ 3244557**

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Tracking Number:
 Date/Time:
 Date/Time:
 Date/Time:
 Date/Time:

Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other

Page: 1 of 1

Internal Transfer Chain of Custody



Rush Multiplier X
 Samples Pre-Logged into eCOC

State Of Origin: MO
 Cert. Needed: Yes No

Requested Analysis

Workorder: 60474050 Workorder Name: AMEREN LCL1 Subcontract To:
 Owner Received Date: 4/30/2025 Results Requested By: 5/21/2025

Jamie Church
 Pace Analytical Kansas
 9608 Loiret Blvd.
 Lenexa, KS 66219
 Phone 314-838-7223

Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2,3, & 4
 Greensburg, PA 15601
 Phone (724)850-5600

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						HNO3		
1	L-TMW-1	PS	4/28/2025 11:00	60474050001	Water	2		001
2	L-TMW-2	RQS	4/28/2025 09:20	60474050002	Water	2		002
3	L-TMW-3	PS	4/28/2025 12:05	60474050003	Water	2		003
4	L-UWL-DUP-1	PS	4/28/2025 00:00	60474050004	Water	2		004
5	L-UWL-FB-1	PS	4/28/2025 12:10	60474050005	Water	2		005
6	L-UML-MS-1	PS	4/28/2025 09:20	60474050006	Water	2		006
7	L-UML-MSD-1	PS	4/28/2025 09:20	60474050007	Water	2		007

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1	JAPAL	5/1/25 17:00	Ryan	5/2/25 9:40				
2								
3								

***Note: Primary samples for 006/007 MS/MSD is sample 002.

Cooler Temperature on Receipt °C °F Received on Ice Y N Samples Intact Y N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

WO# : 30775928

 30775928



DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt- Greensburg

Effective Date: 01/04/2024

WO#: 30775928

PM: CMC

Due Date: 05/14/25

CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Initial / Date

Tracking Number: 4453 8931 0720

Examined By: PS 5/12/25

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Labeled By: PS 5/12/25
Temped By:

Thermometer Used: _____ Type of Ice: Wet Blue None

Cooler Temperature: _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				1003241	
Chain of Custody Present	/				
Chain of Custody Filled Out:	/				
-Were client corrections present on COC		/			
Chain of Custody Relinquished	/				
Sampler Name & Signature on COC:	/				
Sample Labels match COC:	/				
-Includes date/time/ID					
Matrix:			WT		
Samples Arrived within Hold Time:	/				
Short Hold Time Analysis (<72hr remaining):		/			
Rush Turn Around Time Requested:		/			
Sufficient Volume:	/				
Correct Containers Used:	/				
-Pace Containers Used	/				
Containers Intact:	/				
Orthophosphate field filtered:			/		
Hex Cr Aqueous samples field filtered:			/		
Organic Samples checked for dichlorination			/		
Filtered volume received for dissolved tests:			/		
All containers checked for preservation:	/				
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				PHC2	
All containers meet method preservation requirements:	/			Initial when completed PS	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/		
624.1: Headspace in VOA Vials (0mm)			/		
Radon: Headspace in RAD Vials (0mm)			/		
Trip Blank Present:			/		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed PS	Date: 5/12/25 Survey Meter SN: 25014380
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen. Qualtrax ID: 55680



Memorandum

October 30, 2025

To: Project File
Rocksmith Geoengineering, LLC

Project Number: 23007-25

CC: Mark Haddock, Jeffrey Ingram

From: Valerie Hurt

Email: Valerie.Hurt@Rocksmithgeo.com

RE: **Data Validation Summary, Labadie Energy Center – LCL1 – Data Package 60474050**

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a compound was detected in a sample result between the Method Detection Limit (MDL) and Practical Quantification Limit (PQL), the results were recorded at the detection value and qualified as estimates (J).
- When a duplicate criterion was not met, the associated sample result was qualified as an estimate (J for detects, UJ for non-detects).
- When a compound was detected in a blank (i.e. method, field), and the blank comparison criterion was not met, associated sample results were qualified as estimates (J) or non-detects (U).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
 Project Name: Ameren LCL1
 Reviewer: V. Hurt

Project Manager: J. Ingram
 Project Number: 23007-25
 Validation Date: 10/30/2025

Laboratory: Pace Analytical SDG #: 60474050
 Analytical Method (type and no.): EPA 200.7 (Total Metals); SM 2320B (Alkalinity); SM 2540C (TDS); EPA 300.0 (Anions)
 Matrix: Air Soil/Sed. Water Waste _____
 Sample Names L-TMW-1, L-TMW-2, L-TMW-3, L-UWL-DUP-1, L-UWL-FB-1, L-UML-MS-1, L-UML-MSD-1, L-MW-26, L-BMW-1S,
L-BMW-2S

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>4/24/2025-4/30/2025</u>
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>VAH/GTM</u>
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
d) Sample depth indicated (Soils)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>_____</u>
e) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Grab</u>
f) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See Notes</u>
g) Field parameters collected (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH, Spec Cond, Turb, Temp, DO, ORP</u>
h) Field Calibration within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
i) Notations of unacceptable field conditions/performances from field logs or field notes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
j) Does the laboratory narrative indicate deficiencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No lab narrative.</u>
Note Deficiencies: <u>_____</u>				
<u>_____</u>				
<u>_____</u>				

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
b) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
c) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
c) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
d) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
e) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>
f) Were any sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See Notes</u>
g) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>_____</u>

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes
b) Were analytes detected in the field blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes
c) Were analytes detected in the equipment blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were the proper analytes included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes
b) Were field dup. precision criteria met (note RPD)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) Were lab dup. precision criteria met (note RPD)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Was the %D within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Was MSD accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were MS/MSD precision criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments/Notes:

General:

Sulfate was diluted in several samples; no qualification necessary.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Method Blank:

3700770: Calcium (34.5J ug/L), iron (20.1J ug/L), and manganese (1.0J ug/L) detected. Associated with sample -028.

Results < reporting limit and 10x blank, therefore no qualification necessary.

3711067: Chloride (0.59J mg/L) detected. Associated with samples -001 through -005. Results -001 through -004 > than reporting limit and 10x blank.

Results qualified as estimates. -005 result < reporting limit, results qualified as non detect.

Field blank:

L-UWL-FB-1 and associated sample L-TMW-3:

Iron detected (11.3 ug/L). Result > reporting limit & < 10x method blank. Result qualified as estimate.

TDS (9.0 mg/L), result < reporting limit. Result qualified as non detect.

Field Duplicate:

L-UWL-DUP-1 @ L-TMW-1

RPD exceeds control limit (20%) for iron. Result qualified as estimate.

Matrix Spike/Matrix Spike Duplicate

3698973/3698974: MSD low for calcium. MS and RPD OK. No qualification necessary.

3700775: MS recovery low for calcium. RPD OK. Associated with unrelated sample, therefore no qualification necessary.



December 16, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCL1
Pace Project No.: 60484583

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City
- Pace Analytical Services - Salina

REV-1: Report revised to remove parameters not required under the CCR Rule.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AMEREN LCL1

Pace Project No.: 60484583

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

EPA Lab Code: KS00021

Arkansas Certification #: 88-00679

Colorado Division of Oil and Public Safety

Illinois Certification #: 200030

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Oklahoma Certification #: 9205

Texas Certification #: T104704407

Utah Certification #: KS0002125-15

UDSA_CA : #KS-SC-DOM-25-01

Pace Analytical Services Salina

528 N 9th Street, Salina, KS 67401

EPA Lab Code: KS00013

Kansas/NELAP Certification: # E-10146

Oklahoma Certification: #2405

Texas Certification: T104704246-23-15

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SAMPLE SUMMARY

Project: AMEREN LCL1

Pace Project No.: 60484583

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60484583001	L-TMW-1	Water	10/20/25 12:32	10/22/25 08:50
60484583002	L-TMW-2	Water	10/20/25 11:01	10/22/25 08:50
60484583003	L-TMW-3	Water	10/20/25 09:56	10/22/25 08:50
60484583004	L-UWL-DUP-1	Water	10/20/25 00:00	10/22/25 08:50
60484583005	L-UWL-FB-1	Water	10/20/25 12:54	10/22/25 08:50
60484583006	L-UWL-MS-1	Water	10/20/25 11:01	10/22/25 08:50
60484583007	L-UWL-MSD-1	Water	10/20/25 11:01	10/22/25 08:50
60484431017	L-MW-26	Water	10/21/25 12:02	10/22/25 08:50
60484431013	L-BMW-1S	Water	10/21/25 11:06	10/22/25 08:50
60484431014	L-BMW-2S	Water	10/21/25 09:05	10/22/25 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AMEREN LCL1

Pace Project No.: 60484583

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60484583001	L-TMW-1	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484583002	L-TMW-2	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484583003	L-TMW-3	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484583004	L-UWL-DUP-1	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484583005	L-UWL-FB-1	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	AJWM	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431017	L-MW-26	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431013	L-BMW-1S	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K
60484431014	L-BMW-2S	EPA 200.7	ARMN	7	PASI-K
		EPA 300.0	MLL	3	PASI-SA
		SM 2320B	EMB	1	PASI-K
		SM 2540C	DLJ	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

PASI-SA = Pace Analytical Services - Salina

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-TMW-1 Lab ID: 60484583001 Collected: 10/20/25 12:32 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Kansas City									
Boron	116	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 12:29	7440-42-8	
Calcium	141000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 12:29	7440-70-2	
Iron	56.1	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 12:29	7439-89-6	
Magnesium	37200	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 12:29	7439-95-4	
Manganese	136	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 12:29	7439-96-5	
Potassium	5310	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 12:29	7440-09-7	
Sodium	9200	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 12:29	7440-23-5	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Salina									
Chloride	4.8	mg/L	1.0	0.18	1		10/28/25 11:57	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.040	1		10/28/25 11:57	16984-48-8	
Sulfate	43.7	mg/L	5.0	0.48	5		10/28/25 18:18	14808-79-8	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Kansas City									
Alkalinity, Total as CaCO3	470	mg/L	20.0	10.5	1		10/31/25 16:53		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Kansas City									
Total Dissolved Solids	567	mg/L	10.0	10.0	1		10/27/25 10:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-TMW-2 **Lab ID: 60484583002** Collected: 10/20/25 11:01 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Kansas City									
Boron	125	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 12:23	7440-42-8	
Calcium	202000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 12:23	7440-70-2	M1,P6
Iron	261	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 12:23	7439-89-6	
Magnesium	48500	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 12:23	7439-95-4	
Manganese	2420	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 12:23	7439-96-5	
Potassium	6610	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 12:23	7440-09-7	
Sodium	12300	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 12:23	7440-23-5	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Salina									
Chloride	8.8	mg/L	1.0	0.18	1		10/28/25 12:09	16887-00-6	M1
Fluoride	0.16	mg/L	0.10	0.040	1		10/28/25 12:09	16984-48-8	
Sulfate	110	mg/L	10.0	0.96	10		10/28/25 18:55	14808-79-8	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Kansas City									
Alkalinity, Total as CaCO3	654	mg/L	20.0	10.5	1		10/31/25 16:52		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Kansas City									
Total Dissolved Solids	785	mg/L	13.3	13.3	1		10/27/25 10:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-TMW-3 Lab ID: 60484583003 Collected: 10/20/25 09:56 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	92.7J	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 12:31	7440-42-8	
Calcium	130000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 12:31	7440-70-2	
Iron	72.3	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 12:31	7439-89-6	
Magnesium	25200	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 12:31	7439-95-4	
Manganese	527	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 12:31	7439-96-5	
Potassium	5340	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 12:31	7440-09-7	
Sodium	5100	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 12:31	7440-23-5	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	3.1	mg/L	1.0	0.18	1		10/28/25 12:46	16887-00-6	
Fluoride	0.17	mg/L	0.10	0.040	1		10/28/25 12:46	16984-48-8	
Sulfate	35.7	mg/L	5.0	0.48	5		10/28/25 19:32	14808-79-8	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	426	mg/L	20.0	10.5	1		10/31/25 16:53		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	485	mg/L	10.0	10.0	1		10/27/25 10:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-UWL-DUP-1 Lab ID: 60484583004 Collected: 10/20/25 00:00 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	94.5J	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 12:33	7440-42-8	
Calcium	133000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 12:33	7440-70-2	
Iron	67.5	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 12:33	7439-89-6	
Magnesium	26000	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 12:33	7439-95-4	
Manganese	533	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 12:33	7439-96-5	
Potassium	5590	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 12:33	7440-09-7	
Sodium	5280	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 12:33	7440-23-5	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	3.2	mg/L	1.0	0.18	1		10/28/25 12:58	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.040	1		10/28/25 12:58	16984-48-8	
Sulfate	35.7	mg/L	5.0	0.48	5		10/28/25 19:45	14808-79-8	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	432	mg/L	20.0	10.5	1		10/31/25 16:53		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	487	mg/L	10.0	10.0	1		10/27/25 10:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-UWL-FB-1 Lab ID: 60484583005 Collected: 10/20/25 12:54 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Pace Analytical Services - Kansas City									
Boron	<33.2	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 12:34	7440-42-8	
Calcium	<45.3	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 12:34	7440-70-2	
Iron	<15.4	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 12:34	7439-89-6	
Magnesium	<21.1	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 12:34	7439-95-4	
Manganese	<0.42	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 12:34	7439-96-5	
Potassium	<45.2	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 12:34	7440-09-7	
Sodium	<31.8	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 12:34	7440-23-5	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Salina									
Chloride	<0.18	mg/L	1.0	0.18	1		10/28/25 13:10	16887-00-6	
Fluoride	<0.040	mg/L	0.10	0.040	1		10/28/25 13:10	16984-48-8	
Sulfate	<0.096	mg/L	1.0	0.096	1		10/28/25 13:10	14808-79-8	
2320B Alkalinity									
Analytical Method: SM 2320B									
Pace Analytical Services - Kansas City									
Alkalinity, Total as CaCO3	<10.5	mg/L	20.0	10.5	1		10/31/25 16:53		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Kansas City									
Total Dissolved Solids	<5.0	mg/L	5.0	5.0	1		10/27/25 11:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-MW-26 **Lab ID: 60484431017** Collected: 10/21/25 12:02 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	66.1J	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:45	7440-42-8	
Calcium	128000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:45	7440-70-2	
Iron	<15.4	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:45	7439-89-6	
Magnesium	22300	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:45	7439-95-4	
Manganese	17.4	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:45	7439-96-5	
Potassium	4510	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:45	7440-09-7	
Sodium	8100	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:45	7440-23-5	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	6.2	mg/L	1.0	0.18	1		11/01/25 14:35	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.040	1		11/01/25 14:35	16984-48-8	
Sulfate	17.2	mg/L	1.0	0.096	1		11/01/25 14:35	14808-79-8	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	409	mg/L	20.0	10.5	1		11/04/25 21:53		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	469	mg/L	10.0	10.0	1		10/28/25 10:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-BMW-1S Lab ID: 60484431013 Collected: 10/21/25 11:06 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	83.9J	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:32	7440-42-8	
Calcium	191000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:32	7440-70-2	
Iron	24100	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:32	7439-89-6	
Magnesium	34500	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:32	7439-95-4	
Manganese	2540	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:32	7439-96-5	
Potassium	5230	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:32	7440-09-7	
Sodium	8740	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:32	7440-23-5	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	5.3	mg/L	1.0	0.18	1		11/01/25 13:46	16887-00-6	
Fluoride	0.075J	mg/L	0.10	0.040	1		11/01/25 13:46	16984-48-8	
Sulfate	57.7	mg/L	5.0	0.48	5		11/01/25 20:54	14808-79-8	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	575	mg/L	20.0	10.5	1		11/04/25 21:32		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	660	mg/L	13.3	13.3	1		10/28/25 10:56		

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ANALYTICAL RESULTS

Project: AMEREN LCL1

Pace Project No.: 60484583

Sample: L-BMW-2S Lab ID: 60484431014 Collected: 10/21/25 09:05 Received: 10/22/25 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City							
Boron	51.5J	ug/L	100	33.2	1	10/23/25 09:34	11/11/25 10:34	7440-42-8	
Calcium	130000	ug/L	200	45.3	1	10/23/25 09:34	11/11/25 10:34	7440-70-2	
Iron	36.3J	ug/L	50.0	15.4	1	10/23/25 09:34	11/11/25 10:34	7439-89-6	
Magnesium	19300	ug/L	50.0	21.1	1	10/23/25 09:34	11/11/25 10:34	7439-95-4	
Manganese	4.0J	ug/L	5.0	0.42	1	10/23/25 09:34	11/11/25 10:34	7439-96-5	
Potassium	5390	ug/L	500	45.2	1	10/23/25 09:34	11/11/25 10:34	7440-09-7	
Sodium	4280	ug/L	500	31.8	1	10/23/25 09:34	11/11/25 10:34	7440-23-5	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Salina							
Chloride	1.4	mg/L	1.0	0.18	1		11/01/25 13:58	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.040	1		11/01/25 13:58	16984-48-8	
Sulfate	13.4	mg/L	1.0	0.096	1		11/01/25 13:58	14808-79-8	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City							
Alkalinity, Total as CaCO3	378	mg/L	20.0	10.5	1		11/04/25 21:39		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City							
Total Dissolved Solids	466	mg/L	10.0	10.0	1		10/28/25 10:56		

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch:	952613	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431013, 60484431014, 60484431017

METHOD BLANK: 3775499 Matrix: Water

Associated Lab Samples: 60484431013, 60484431014, 60484431017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	<33.2	100	33.2	11/11/25 10:21	
Calcium	ug/L	<45.3	200	45.3	11/11/25 10:21	
Iron	ug/L	<15.4	50.0	15.4	11/11/25 10:21	
Magnesium	ug/L	<21.1	50.0	21.1	11/11/25 10:21	
Manganese	ug/L	<0.42	5.0	0.42	11/11/25 10:21	
Potassium	ug/L	<45.2	500	45.2	11/11/25 10:21	
Sodium	ug/L	<31.8	500	31.8	11/11/25 10:21	

LABORATORY CONTROL SAMPLE: 3775500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	952	95	85-115	
Calcium	ug/L	10000	10000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Magnesium	ug/L	10000	9750	97	85-115	
Manganese	ug/L	1000	999	100	85-115	
Potassium	ug/L	10000	9860	99	85-115	
Sodium	ug/L	10000	9810	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775501 3775502

Parameter	Units	60484431021		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Boron	ug/L	1020	1000	1000	1950	2010	94	100	70-130	3	20		
Calcium	ug/L	119000	10000	10000	126000	129000	72	96	70-130	2	20		
Iron	ug/L	3800	10000	10000	13700	14200	99	104	70-130	4	20		
Magnesium	ug/L	18400	10000	10000	27700	28200	92	97	70-130	2	20		
Manganese	ug/L	503	1000	1000	1470	1510	97	101	70-130	3	20		
Potassium	ug/L	7250	10000	10000	16800	17500	95	103	70-130	4	20		
Sodium	ug/L	74300	10000	10000	82300	83700	80	94	70-130	2	20		

SAMPLE DUPLICATE: 3785256

Parameter	Units	60484431020 Result	Dup Result	RPD	Max RPD	Qualifiers
Boron	ug/L	51.2J	50.9J		20	
Calcium	ug/L	137000	137000	0	20	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

SAMPLE DUPLICATE: 3785256

Parameter	Units	60484431020 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	ug/L	8570	8710	2	19	
Magnesium	ug/L	34000	34000	0	20	
Manganese	ug/L	269	270	1	12	
Potassium	ug/L	4250	4200	1	20	
Sodium	ug/L	10600	10600	0	20	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch:	952630	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

METHOD BLANK: 3775555 Matrix: Water
 Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	ug/L	<33.2	100	33.2	11/11/25 12:20	
Calcium	ug/L	<45.3	200	45.3	11/11/25 12:20	
Iron	ug/L	<15.4	50.0	15.4	11/11/25 12:20	
Magnesium	ug/L	<21.1	50.0	21.1	11/11/25 12:20	
Manganese	ug/L	<0.42	5.0	0.42	11/11/25 12:20	
Potassium	ug/L	<45.2	500	45.2	11/11/25 12:20	
Sodium	ug/L	<31.8	500	31.8	11/11/25 12:20	

LABORATORY CONTROL SAMPLE: 3775556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	ug/L	1000	950	95	85-115	
Calcium	ug/L	10000	9980	100	85-115	
Iron	ug/L	10000	9800	98	85-115	
Magnesium	ug/L	10000	9690	97	85-115	
Manganese	ug/L	1000	981	98	85-115	
Potassium	ug/L	10000	9780	98	85-115	
Sodium	ug/L	10000	9760	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3775557 3775558

Parameter	Units	60484583002		3775557		3775558		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Boron	ug/L	125	1000	1000	1090	1110	96	98	70-130	2	20			
Calcium	ug/L	202000	10000	10000	212000	209000	98	67	70-130	1	20	M1		
Iron	ug/L	261	10000	10000	10200	10300	99	101	70-130	2	20			
Magnesium	ug/L	48500	10000	10000	58000	57400	95	89	70-130	1	20			
Manganese	ug/L	2420	1000	1000	3380	3310	95	89	70-130	2	20			
Potassium	ug/L	6610	10000	10000	16800	16700	101	101	70-130	0	20			
Sodium	ug/L	12300	10000	10000	22000	22000	97	97	70-130	0	20			

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch: 953128 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Salina
 Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

METHOD BLANK: 3777712 Matrix: Water
 Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.18	1.0	0.18	10/28/25 08:56	
Fluoride	mg/L	<0.040	0.10	0.040	10/28/25 08:56	
Sulfate	mg/L	<0.096	1.0	0.096	10/28/25 08:56	

LABORATORY CONTROL SAMPLE: 3777713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777714 3777715

Parameter	Units	60483723002		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	16.4	10	10	10	25.6	25.8	91	94	80-120	1	15	
Fluoride	mg/L	0.30	2.5	2.5	2.5	2.8	2.8	101	99	80-120	2	15	
Sulfate	mg/L	44.9	25	25	25	69.1	69.8	97	100	80-120	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3777716 3777717

Parameter	Units	60484583002		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	8.8	5	5	5	12.5	12.5	75	75	80-120	0	15 M1	
Fluoride	mg/L	0.16	2.5	2.5	2.5	2.4	2.6	88	98	80-120	11	15	
Sulfate	mg/L	110	50	50	50	162	159	104	99	80-120	2	15	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch:	953722	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Salina
Associated Lab Samples:	60484431013, 60484431014, 60484431017		

METHOD BLANK: 3779885 Matrix: Water
 Associated Lab Samples: 60484431013, 60484431014, 60484431017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.18	1.0	0.18	11/01/25 10:41	
Fluoride	mg/L	<0.040	0.10	0.040	11/01/25 10:41	
Sulfate	mg/L	<0.096	1.0	0.096	11/01/25 10:41	

LABORATORY CONTROL SAMPLE: 3779886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779887 3779888

Parameter	Units	60484431006		3779887		3779888		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	21.0	21.0	10	10	29.8	29.2	89	83	80-120	2	15	
Fluoride	mg/L	0.23	0.23	2.5	2.5	2.7	2.7	101	100	80-120	1	15	
Sulfate	mg/L	178	178	100	100	274	278	97	100	80-120	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3779889 3779890

Parameter	Units	60484431020		3779889		3779890		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	4.9	4.9	5	5	9.4	9.3	90	88	80-120	1	15	
Fluoride	mg/L	0.16	0.16	2.5	2.5	2.7	2.7	100	100	80-120	1	15	
Sulfate	mg/L	17.6	17.6	10	10	27.1	26.8	94	92	80-120	1	15	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch:	953708	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60484583001, 60484583002, 60484583003, 60484583004, 60484583005		

METHOD BLANK: 3779855 Matrix: Water
 Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	10/31/25 16:51	

LABORATORY CONTROL SAMPLE: 3779856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	496	99	90-110	

SAMPLE DUPLICATE: 3779857

Parameter	Units	60484431007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	104	102	2	10	

SAMPLE DUPLICATE: 3779858

Parameter	Units	60484583002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	654	632	3	10	

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch: 954127

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431013, 60484431014, 60484431017

METHOD BLANK: 3781518

Matrix: Water

Associated Lab Samples: 60484431013, 60484431014, 60484431017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<10.5	20.0	10.5	11/04/25 21:17	

LABORATORY CONTROL SAMPLE: 3781519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	484	97	90-110	

SAMPLE DUPLICATE: 3781520

Parameter	Units	60484433004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	144	262	58	10	D6

SAMPLE DUPLICATE: 3781521

Parameter	Units	60484432009 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	64.4	57.9	11	10	D6

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch:	953036	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

METHOD BLANK: 3777331 Matrix: Water
 Associated Lab Samples: 60484583001, 60484583002, 60484583003, 60484583004, 60484583005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/27/25 10:55	

LABORATORY CONTROL SAMPLE: 3777332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 3777333

Parameter	Units	60484431028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<5.0	<5.0		10	

SAMPLE DUPLICATE: 3777334

Parameter	Units	60484583002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	785	787	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1

Pace Project No.: 60484583

QC Batch: 953151

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60484431013, 60484431014, 60484431017

METHOD BLANK: 3777820

Matrix: Water

Associated Lab Samples: 60484431013, 60484431014, 60484431017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	5.0	10/28/25 10:56	

LABORATORY CONTROL SAMPLE: 3777821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1010	101	80-120	

SAMPLE DUPLICATE: 3777822

Parameter	Units	60484433004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	639	645	1	10	

SAMPLE DUPLICATE: 3777823

Parameter	Units	60484432009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	0	10	

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QUALIFIERS

Project: AMEREN LCL1

Pace Project No.: 60484583

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCL1

Pace Project No.: 60484583

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60484431013	L-BMW-1S	EPA 200.7	952613	EPA 200.7	952704
60484431014	L-BMW-2S	EPA 200.7	952613	EPA 200.7	952704
60484431017	L-MW-26	EPA 200.7	952613	EPA 200.7	952704
60484583001	L-TMW-1	EPA 200.7	952630	EPA 200.7	952709
60484583002	L-TMW-2	EPA 200.7	952630	EPA 200.7	952709
60484583003	L-TMW-3	EPA 200.7	952630	EPA 200.7	952709
60484583004	L-UWL-DUP-1	EPA 200.7	952630	EPA 200.7	952709
60484583005	L-UWL-FB-1	EPA 200.7	952630	EPA 200.7	952709
60484431013	L-BMW-1S	EPA 300.0	953722		
60484431014	L-BMW-2S	EPA 300.0	953722		
60484431017	L-MW-26	EPA 300.0	953722		
60484583001	L-TMW-1	EPA 300.0	953128		
60484583002	L-TMW-2	EPA 300.0	953128		
60484583003	L-TMW-3	EPA 300.0	953128		
60484583004	L-UWL-DUP-1	EPA 300.0	953128		
60484583005	L-UWL-FB-1	EPA 300.0	953128		
60484431013	L-BMW-1S	SM 2320B	954127		
60484431014	L-BMW-2S	SM 2320B	954127		
60484431017	L-MW-26	SM 2320B	954127		
60484583001	L-TMW-1	SM 2320B	953708		
60484583002	L-TMW-2	SM 2320B	953708		
60484583003	L-TMW-3	SM 2320B	953708		
60484583004	L-UWL-DUP-1	SM 2320B	953708		
60484583005	L-UWL-FB-1	SM 2320B	953708		
60484431013	L-BMW-1S	SM 2540C	953151		
60484431014	L-BMW-2S	SM 2540C	953151		
60484431017	L-MW-26	SM 2540C	953151		
60484583001	L-TMW-1	SM 2540C	953036		
60484583002	L-TMW-2	SM 2540C	953036		
60484583003	L-TMW-3	SM 2540C	953036		
60484583004	L-UWL-DUP-1	SM 2540C	953036		
60484583005	L-UWL-FB-1	SM 2540C	953036		

REPORT OF LABORATORY ANALYSIS

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WO#: 60484583



DC#_Title: ENV-FRM-LENE-0009_Sample

Revision: 3

Effective Date: 09/22/2025

Issued By: Lenexa

Client Name: Rocksmitz Geoveng

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Cooling process has begun

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 0.9/1.5 Corr. Factor 0.0 Corrected 0.9/1.5

Temperature should be above freezing to 6°C 1.9/16.2

Date and initials of person examining contents:

PN/10/22/25

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#: <u>916888</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Company Name: RocksSmith Geoengineering, LLC.
 Street Address: 2320 Creve Coeur Mill Road
 Maryland Heights, MO 63043

Customer Project #: AMEREN LCL1

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

Data Deliverables:
 [] Level II [] Level III [] Level IV
 [] Level I
 [] Other

Regulatory Program (DWR, RCRA, etc.) as applicable: Reportable [] Yes [] No

Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Date Requested:
 Field Filtered (if applicable): [] Yes [] No

Matrix *
 WT

Customer Sample ID
 L-TMW-1

Comp / Grab
 G

Composite Start
 Date

Collected or Composite End
 Date

Cont.
 6

Res. Chlorine
 Results

Units

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Contact/Report To: Mark Haddock
 Phone #: 314-974-6578
 E-Mail: mark.haddock@rocksmithgeo.com
 Cc E-Mail:

Invoice To: Mark Haddock
 Invoice E-Mail: mark.haddock@rocksmithgeo.com
 Purchase Order # (if applicable):
 Quote #:

Country / State origin of sample(s): Missouri

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [] Yes [] No

Analysis:
 Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Matrix *
 WT

Customer Sample ID
 L-TMW-2

Comp / Grab
 G

Composite Start
 Date

Collected or Composite End
 Date

Cont.
 6

Res. Chlorine
 Results

Units

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

LAB USE ONLY - Affix Workorder/Login Label Here
 Chain of Custody QR Code for instructions

Specify Container Size **
 Identify Container Preservative Type***

Analysis Requested

Proj. Mgr:
 AcctNum / Client ID:
 Table #:
 Profile / Template:
 Prelog / Bottle Ord. ID:
 EZ 3303689

Preservation non-conformance identified for sample.

Sample Comment
 Taken @ TMW-2

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
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 COD & TOC
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 Radium 226/228
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Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens



Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Preservation non-conformance identified for sample.

Sample Comment
 Taken @ TMW-2

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Customer Remarks / Special Conditions / Possible Hazards:
 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

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 App IV Metals*
 UWL Metals*
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 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
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 App IV Metals*
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 App III and Cat/An Metals*
 App IV Metals*
 UWL Metals*
 COD & TOC
 C1/F/SO4/TDS/Alkalinity
 Radium 226/228
 Total Organic Halogens

Additional Instructions from Pace*:
 * App III and Cat/An Metals* - EPA 200.7: Ba, Ca, Fe, Mg, Mn, K, Na
 * App IV Metals - EPA 200.7: Ba, Be, Co, Pb, Li, Mo and 200.8 Metals - Sb, As, Cd, Cr, Se, Ti + 47470 Hg
 ***UWL Metals - 200.7: Al, Cu, Ni, Ag, Zn + Hardness

Relinquished by/Company: (Signature)
 Date/Time: 10/21/25 16:00

Relinquished by/Company: (Signature)
 Date/Time:

Collected By: John Kuntz
 (Printed Name)
 Signature: [Signature]

Received by/Company: (Signature)
 Date/Time: 10/22/25 08:50

Received by/Company: (Signature)
 Date/Time:

Obs. Temp. (°C): 0.09
 Corrected Temp. (°C): 0.9
 On Ice:

Thermometer ID: T-301
 Correction Factor (°C): 0.0

Tracking Number: 84

Date/Time: 10/22/25 08:50

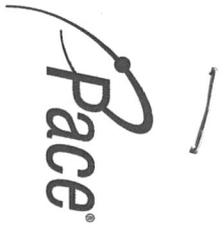
Date/Time:

Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other

Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at <https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/>

ENV-FRM-CORD-0019_v02_110123 ©



Ship To:
 Pace National
 12065 Lebanon Rd
 Mt. Juliet, TN 37122
 Phone (615) 758-5858

651153

INTER LABORATORY WORK ORDER # 60484583

(To be completed by sending lab)

Sending Project No	60484583
Receiving Project No	
Check Box for Consolidated Invoice	<input type="checkbox"/>
Date Prepared	10/22/25
REQUESTED COMPLETION DATE:	11/5/2025

Sending Region	IR60-Kansas	Sending Project Mgr.	Jamie Church
Receiving Region	IR850-Pace National	External Client	Rocksmith Geoen지니어ing, LLC.
State of Sample Origin	MO	QC Deliverable	STD REPORT

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? IRWO Lab Need to run? Cert. Needed No-MO

WORK REQUESTED						
Method Description	Container Type	Quantity of containers	Preservative	Quantity of Samples	Acode	Acode Desc
Total Organic Halogens	AG3S	7	H2SO4	5	SI-21WET	SUB PASI WET

Special Requirements: Report D. QC Limits, MDLs (D), Golder Ameren (1010)

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: Yes No

DISPOSITION of FORM

Original sent to the receiving lab - Copy kept at the sending lab.
 When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to incorporate as needed.

Internal Transfer Chain of Custody



Rush Multiplier X
 Samples Pre-Logged into eCOC
 Workorder: 60484583 Workorder Name: AMEREN LCL1

State Of Origin: MO
 Cert. Needed: Yes No
 Owner Received Date: 10/22/2025 Results Requested By: 11/5/2025

Report To: Subcontract To: Requested Analysis: Radium 226 Radium 228

Jamie Church
 Pace Analytical Kansas
 9608 Loiret Blvd.
 Lenexa, KS 66219
 Phone 314-838-7223

Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2,3, & 4
 Greensburg, PA 15601
 Phone (724)850-5600

WO#: 30821131



30821131

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						Count	Volume	
1	L-TMW-1	PS	10/20/2025 12:32	60484583001	Water	2		001
2	L-TMW-2	RQS	10/20/2025 11:01	60484583002	Water	2		002
3	L-TMW-3	PS	10/20/2025 09:56	60484583003	Water	2		003
4	L-UWL-DUP-1	PS	10/20/2025 00:00	60484583004	Water	2		004
5	L-UWL-FB-1	PS	10/20/2025 12:54	60484583005	Water	2		005
6	L-UWL-MS-1	PS	10/20/2025 11:01	60484583006	Water	2		006
7	L-UWL-MSD-1	PS	10/20/2025 11:01	60484583007	Water	2		007

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	JAYAG	10/20/25 17:00	RKypen	10/27/25 9:10	*Note: Parent sample for MS/MISD (006/007) is 002.
2					LOCATION: RECEIVING
3					

Cooler Temperature on Receipt: — °C Custody Seal: Y or N Received on Ice: Y or N Samples Intact: Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.



DC#_Title: ENV-FRM-GBUR-0088 v0:
Greensburg
Effective Date: 06/24/2025

WO#: 30821131

PM: CMC Due Date: 11/17/25
CLIENT: PACE_60_LEKS

Client Name: Pace KS

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 4453 8938 9804

Initial / Date

Examined By: ES 10-27-25

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Therm. Used: Type of Ice: Wet Blue None

Labeled By: ES 10-27-25

Temped By:

Cooler Temp: Observed Temp °C Correction Factor: °C Final Temp: °C
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# <u>10043241</u>	D.P.D. Residual Chlorine Lot # <u> </u>
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:		/		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests: Cr6+, Orthophosphate, DOC, Metals			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed <u>ES</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	
624.1: Headspace in VOA Vials (0mm)			/	18.	
Radon: Headspace in RAD Vials (0mm)			/	19.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed <u>PS</u>	Date: <u>10/27/25</u> Survey Meter SN: <u>25014380</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.



Memorandum

December 17, 2025

To: Project File
Rocksmith Geoengineering, LLC

Project Number: 23007-25

CC: Mark Haddock, Jeffrey Ingram

From: Valerie Hurt

Email: Valerie.Hurt@Rocksmithgeo.com

RE: **Data Validation Summary, Labadie Energy Center – LCL1 – Data Package 60484583**

The following is a summary of instances where quality control criteria in the functional guidelines were not met and data qualification was required:

- When a matrix spike/matrix spike duplicate (MS/MSD) criterion was not met, the associated sample result was qualified as an estimate (J, J+ for estimates based high, and J- for estimates based low). When the associated sample result was a non-detect, and matrix spike recovery was below 10%, the result was rejected (R).

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
 Project Name: Ameren LCL1
 Reviewer: V. Hurt

Project Manager: J. Ingram
 Project Number: 23007-25
 Validation Date: 12/17/2025

Laboratory: Pace Analytical SDG #: 60484583
 Analytical Method (type and no.): EPA 200.7 (Total Metals); SM 2320B (Alkalinity); SM 2540C (TDS); EPA 300.0 (Anions)
 Matrix: Air Soil/Sed. Water Waste
 Sample Names L-TMW-1, L-TMW-2, L-TMW-3, L-UWL-DUP-1, L-UWL-FB-1, L-UWL-MS-1, L-UWL-MSD-1, L-MW-26, L-BMW-1S, L-BMW-2S

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>10/20/2025-10/21/2025</u>
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>JTR/JDQ/VAH</u>
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
d) Sample depth indicated (Soils)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u></u>
e) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Grab</u>
f) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See Notes</u>
g) Field parameters collected (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH, Spec Cond, Turb, Temp, DO, ORP</u>
h) Field Calibration within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
i) Notations of unacceptable field conditions/performances from field logs or field notes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>
j) Does the laboratory narrative indicate deficiencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No lab narrative.</u>
Note Deficiencies: <u></u>				

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
b) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
c) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
c) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
d) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
e) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
f) Were any sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See Notes</u>
g) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b) Were analytes detected in the field blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
c) Were analytes detected in the equipment blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) Were the proper analytes included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Notes
b) Were field dup. precision criteria met (note RPD)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) Were lab dup. precision criteria met (note RPD)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Was the %D within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b) Was MSD accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c) Were MS/MSD precision criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments/Notes:

General:

Sulfate diluted in some samples, no qualification necessary.

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Field Blanks:

L-UWL-FB-1 @ L-TMW-1: No detects.

Field Duplicates:

L-UWL-DUP-1 @ L-TMW-3: Duplicate RPD's within control limits.

Lab Duplicates:

3781520: RPD exceeds limit of 10% for Alkalinity (58%), associated with an unrelated sample, no qualification necessary.

3781521: RPD exceeds limit of 10% for Alkalinity (11%), associated with an unrelated sample, no qualification necessary.

MS/MSD:

3775557/3775558: MSD recovery low for calcium, MS and RPD okay. Associated with sample -002, no qualification necessary.

3777716/3777717: MS/MSD recovery low for chloride, RPD okay. Associated with sample -002, result qualified as estimate.



December 23, 2025

Mark Haddock
Rocksmith Geoengineering, LLC.
2320 Creve Coeur Mill Road
Maryland Heights, MO 63043

RE: Project: AMEREN LCL1-VERIFICATION
Pace Project No.: 60487253

Dear Mark Haddock:

Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamie Church
jamie.church@pacelabs.com
314-838-7223
Project Manager

Enclosures

cc: Jeffrey Ingram, Rocksmith Geoengineering, LLC.
Lisa Meyer, Ameren
Grant Morey, Rocksmith Geoengineering, LLC.
Austin Nieman, Ameren



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

EPA Lab Code: KS00021

Arkansas Certification #: 88-00679

Illinois Certification #: 200030

Colorado Division of Oil and Public Safety

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Oklahoma Certification #: 9205

Texas Certification #: T104704407

Utah Certification #: KS0002125-15

UDSA_CA : #KS-SC-DOM-25-01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60487253001	L-TMW-2	Water	12/08/25 09:11	12/09/25 07:44
60487253002	L-UWL-DUP-1	Water	12/08/25 00:00	12/09/25 07:44
60487253003	L-UWL-FB-1	Water	12/08/25 09:26	12/09/25 07:44

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SAMPLE ANALYTE COUNT

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60487253001	L-TMW-2	EPA 300.0	GTS	1	PASI-K
60487253002	L-UWL-DUP-1	EPA 300.0	GTS	1	PASI-K
60487253003	L-UWL-FB-1	EPA 300.0	GTS	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Sample: L-TMW-2 Lab ID: 60487253001 Collected: 12/08/25 09:11 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Kansas City									
Chloride	8.3	mg/L	1.0	0.77	1		12/20/25 18:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Sample: L-UWL-DUP-1 Lab ID: 60487253002 Collected: 12/08/25 00:00 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Kansas City									
Chloride	8.1	mg/L	1.0	0.77	1		12/20/25 19:15	16887-00-6	

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ANALYTICAL RESULTS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Sample: L-UWL-FB-1 Lab ID: 60487253003 Collected: 12/08/25 09:26 Received: 12/09/25 07:44 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0									
Pace Analytical Services - Kansas City									
Chloride	<0.77	mg/L	1.0	0.77	1		12/20/25 19:26	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

QC Batch:	959321	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60487253001, 60487253002, 60487253003		

METHOD BLANK: 3802006 Matrix: Water
 Associated Lab Samples: 60487253001, 60487253002, 60487253003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	<0.77	1.0	0.77	12/20/25 14:16	

LABORATORY CONTROL SAMPLE: 3802007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.5	91	90-110	

MATRIX SPIKE SAMPLE: 3802010

Parameter	Units	60487593003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	204	250	397	77	80-120	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3802011 3802012

Parameter	Units	60487253001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.3	5	5	14.0	14.0	113	113	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: AMEREN LCL1-VERIFICATION

Pace Project No.: 60487253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60487253001	L-TMW-2	EPA 300.0	959321		
60487253002	L-UWL-DUP-1	EPA 300.0	959321		
60487253003	L-UWL-FB-1	EPA 300.0	959321		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-LENE-0009_Sam

Revision: 3

Effective Date: 09/22/2

W0#: 60487253



60487253

Client Name: RockSmith Geoeengineering JLLC

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No Cooling process has begun

Packing Material: Bubble Wrap Bubble Bags Foam None Other PLC

Thermometer Used: B30 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.1 Corr. Factor 0.0 Corrected 1.1

Temperature should be above freezing to 6°C 0.9 0.9

Date and initials of person 12/9/25 examining contents: JA

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, Radium) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



Memorandum

December 29, 2025

To: Project File
Rocksmith Geoengineering, LLC

Project Number: 23007-25

CC: Mark Haddock, Jeffrey Ingram

From: Valerie Hurt

Email: Valerie.Hurt@Rocksmithgeo.com

RE: **Data Validation Summary, Labadie Energy Center – LCL1 – Data Package 60487253**

The following is a summary of instances where quality control criteria in the functional guidelines were not met, and data qualification was required:

- None.

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Rocksmith Geoengineering
 Project Name: Ameren LCL1
 Reviewer: V. Hurt

Project Manager: J. Ingram
 Project Number: 23007-25
 Validation Date: 12/29/2025

Laboratory: Pace Analytical

SDG #: 60487253

Analytical Method (type and no.): EPA 300.0 (Chloride)

Matrix: Air Soil/Sed. Water Waste

Sample Names L-TMW-2, L-TMW-3, L-UWL-DUP-1, L-UWL-FB-1

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>12/08/25</u>
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>JTR/JDQ</u>
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
d) Sample depth indicated (Soils)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u></u>
e) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Grab</u>
f) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>See Notes</u>
g) Field parameters collected (note types)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>pH, Spec Cond, Turb, Temp, DO, ORP</u>
h) Field Calibration within control limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
i) Notations of unacceptable field conditions/performances from field logs or field notes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>
j) Does the laboratory narrative indicate deficiencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>No lab narrative.</u>

Note Deficiencies:

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
b) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
c) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
c) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
d) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
e) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u></u>
f) Were any sample dilutions noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>
g) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u></u>

QA LEVEL II - INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
b) Were analytes detected in the field blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
c) Were analytes detected in the equipment blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were the proper analytes included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were field dup. precision criteria met (note RPD)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L-UWL-DUP-1 @ L-TMW-2
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Were lab dup. precision criteria met (note RPD)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
b) Was the %D within control limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Notes
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
b) Was MSD accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
c) Were MS/MSD precision criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Comments/Notes:

QA LEVEL IV - INORGANIC DATA EVALUATION CHECKLIST

Comments/Notes:

Field Blanks:

L-UWL-FB-1 @ L-TMW-2: No detections

MS/MSD:

3802010: MS recovery low for chloride. Associated with an unrelated sample, no qualification necessary.

Appendix B

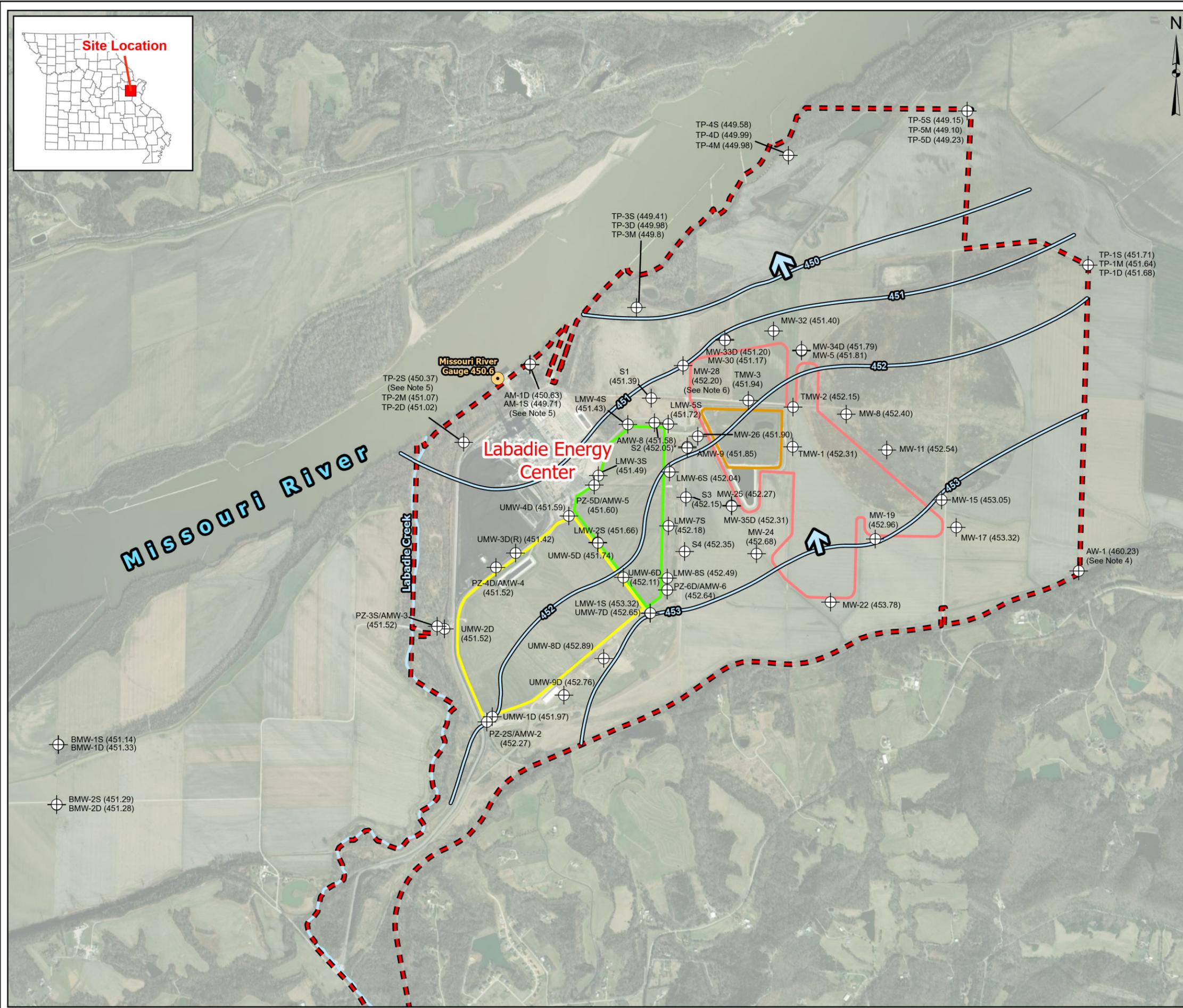
2025 Potentiometric Surface Maps

TITLE
FEBRUARY 4, 2025 POTENTIOMETRIC SURFACE MAP



Legend

- Labadie Energy Center Property Boundary
- CCR Units**
- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter
- Monitoring Well or Piezometer**
- Monitoring Well or Piezometer
- Surface Water Elevation Measurement Location**
- Missouri River Gauge
- Groundwater Elevation Contours**
- Groundwater Elevation Contour (FT MSL)
- Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction



NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. AW-1 was not used used in potentiometric surface contouring due to localized conditions causing an artificially high potentiometric elevation.
5. Wells TP-2S and AM-1S not used for potentiometric surface contouring due to localized vertical gradients.
6. MW-28 not used for potentiometric surface contouring due to localized vertical gradients.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.



PROJECT
 CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
 AMEREN MISSOURI
 LABADIE ENERGY CENTER



DESIGN	JSI	YYYY-MM-DD	2025-07-18
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	JTR	FIGURE B1	
APPROVED	MNH		

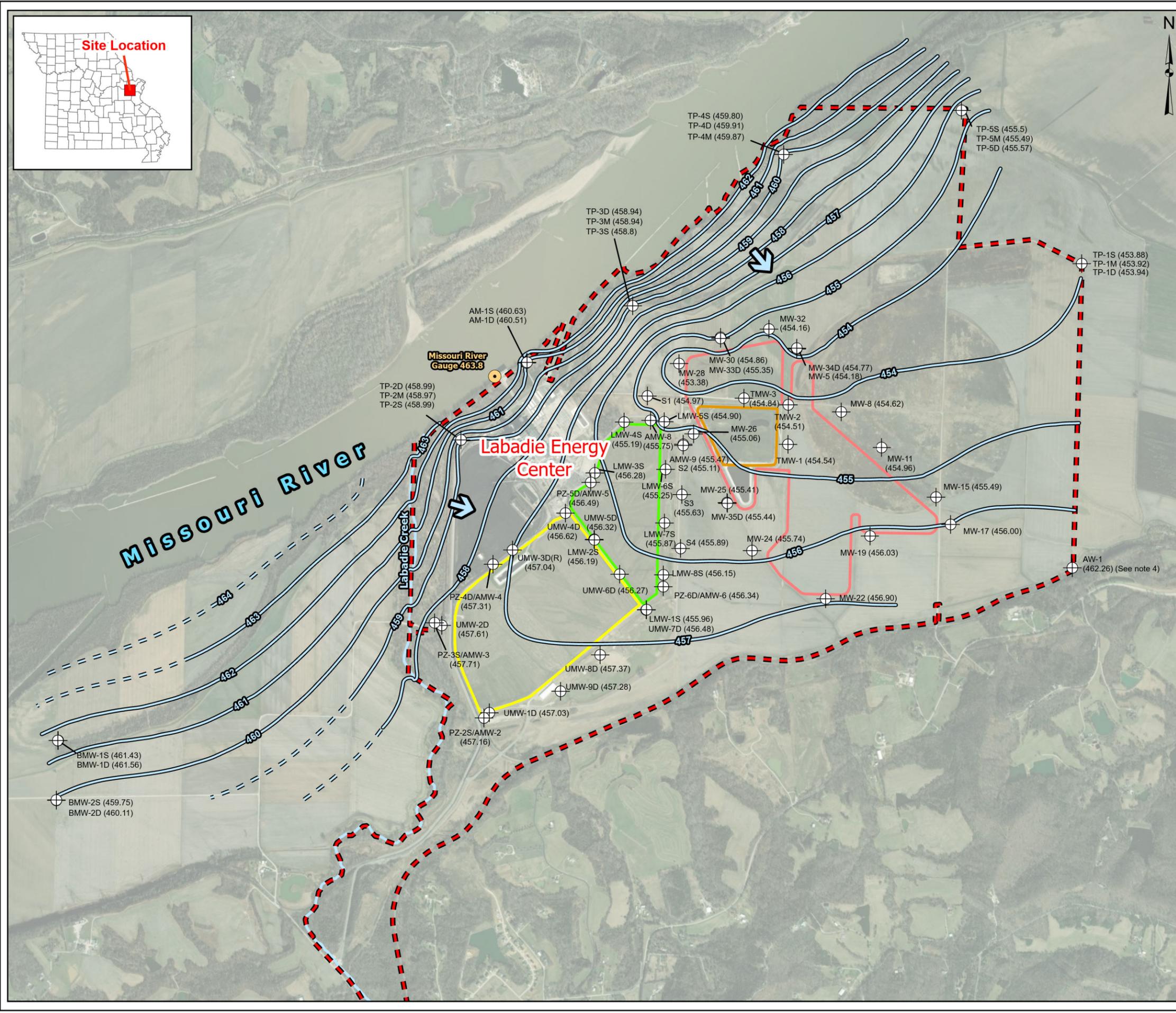
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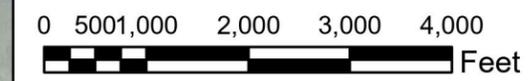
TITLE
APRIL 23, 2025 POTENTIOMETRIC SURFACE MAP

- Legend**
- Labadie Energy Center Property Boundary
 - CCR Units**
 - LCPA - Closed Bottom Ash Surface Impoundment
 - LCPB - Closed Fly Ash Surface Impoundment
 - LCL1 - Utility Waste Landfill Cell 1
 - Proposed Final UWL Fence Perimeter
 - Monitoring Well or Piezometer**
 - Monitoring Well or Piezometer
 - Surface Water Elevation Measurement Location**
 - Missouri River Gauge
 - Groundwater Elevation Contours**
 - Groundwater Elevation Contour (FT MSL)
 - Inferred Groundwater Elevation Contour (FT MSL)
 - Groundwater Flow Direction



- NOTES**
1. All locations and boundaries are approximate.
 2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
 3. Missouri River Level obtained from USGS Labadie gauge 06935550.
 4. AW-1 was not used used in potentiometric surface contouring due to localized conditions causing an artificially high potentiometric elevation.

- REFERENCES**
1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
 2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.



PROJECT
 CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
 AMEREN MISSOURI
 LABADIE ENERGY CENTER

	DESIGN	JSI	YYYY-MM-DD	2025-12-22
	PREPARED	JDQ/JTR	PROJECT No.	23007-25
	REVIEW	JTR	FIGURE B2	
	APPROVED	MNH		

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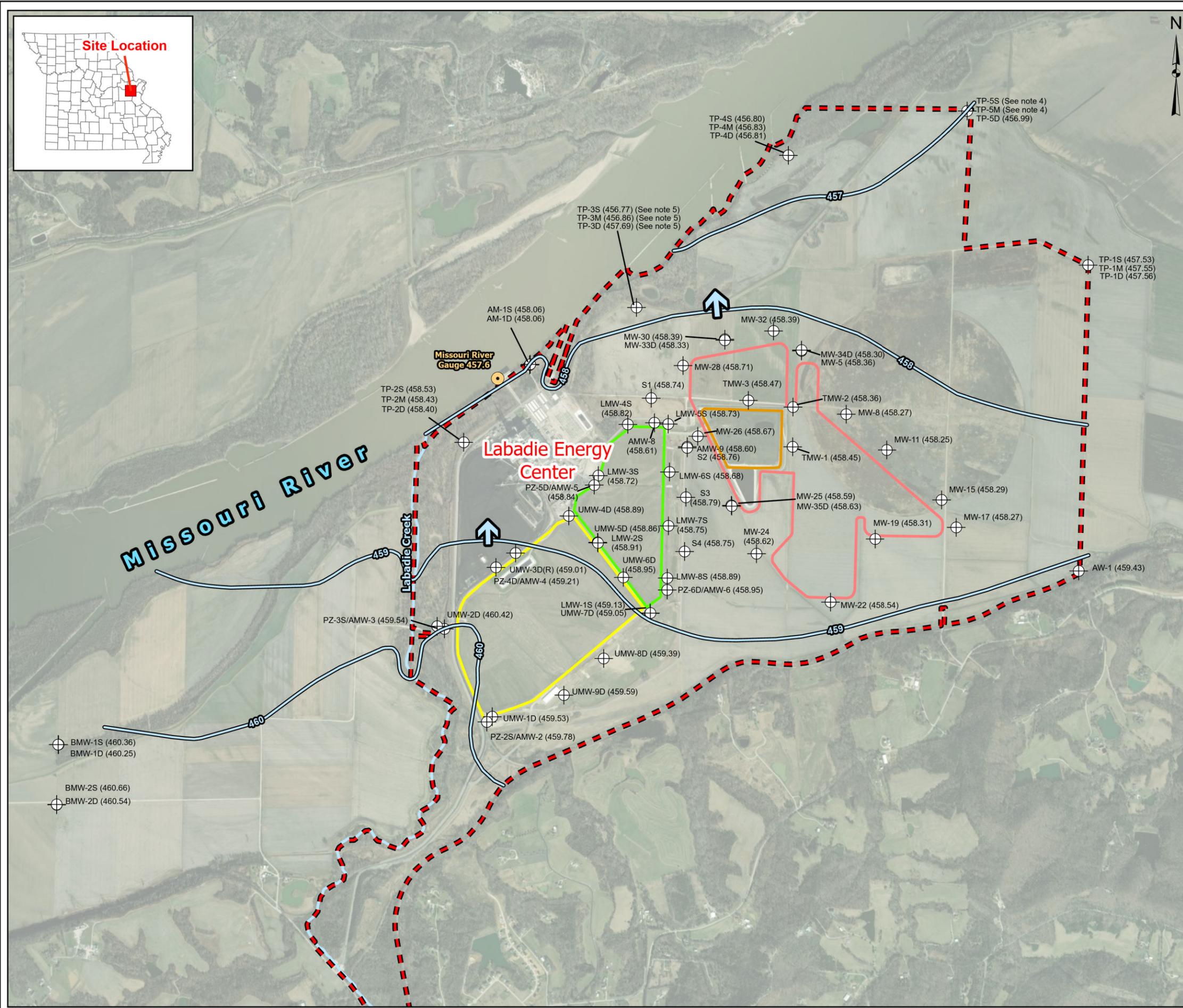
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TITLE
**JULY 8, 2025 POTENTIOMETRIC SURFACE
 MAP**



Legend

- Labadie Energy Center Property Boundary
- CCR Units**
- LCPA - Closed Bottom Ash Surface Impoundment
- LCPB - Closed Fly Ash Surface Impoundment
- LCL1 - Utility Waste Landfill Cell 1
- Proposed Final UWL Fence Perimeter
- Monitoring Well or Piezometer**
- Monitoring Well or Piezometer
- Surface Water Elevation Measurement Location**
- Missouri River Gauge
- Groundwater Elevation Contours**
- Groundwater Elevation Contour (FT MSL)
- Inferred Groundwater Elevation Contour (FT MSL)
- Groundwater Flow Direction



NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. TP-5S and TP-5M were not used in potentiometric surface contouring due to measurement error.
5. TP-3S, TP-3M, and TP-3D were not used in potentiometric surface contouring due to localized vertical gradient.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.



PROJECT
 CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
 AMEREN MISSOURI
 LABADIE ENERGY CENTER



DESIGN	JSI	YYYY-MM-DD	2025-12-18
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	JTR	FIGURE B3	
APPROVED	MNH		

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D

TITLE
OCTOBER 16, 2025 POTENTIOMETRIC SURFACE MAP



Legend

- ▬ Labadie Energy Center Property Boundary
- CCR Units**
- ▬ LCPA - Closed Bottom Ash Surface Impoundment
- ▬ LCPB - Closed Fly Ash Surface Impoundment
- ▬ LCL1 - Utility Waste Landfill Cell 1
- ▬ Proposed Final UWL Fence Perimeter
- Monitoring Well or Piezometer**
- ⊕ Monitoring Well or Piezometer
- Surface Water Elevation Measurement Location**
- Missouri River Gauge
- Groundwater Elevation Contours**
- ▬ Groundwater Elevation Contour (FT MSL)
- ▬ Inferred Groundwater Elevation Contour (FT MSL)
- ↗ Groundwater Flow Direction

NOTES

1. All locations and boundaries are approximate.
2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
3. Missouri River Level obtained from USGS Labadie gauge 06935550.
4. TP-5S not used in potentiometric surface contouring due to localized vertical gradient.
5. MW-25 not used in potentiometric surface contouring due to localized vertical gradient.

REFERENCES

1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.



PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

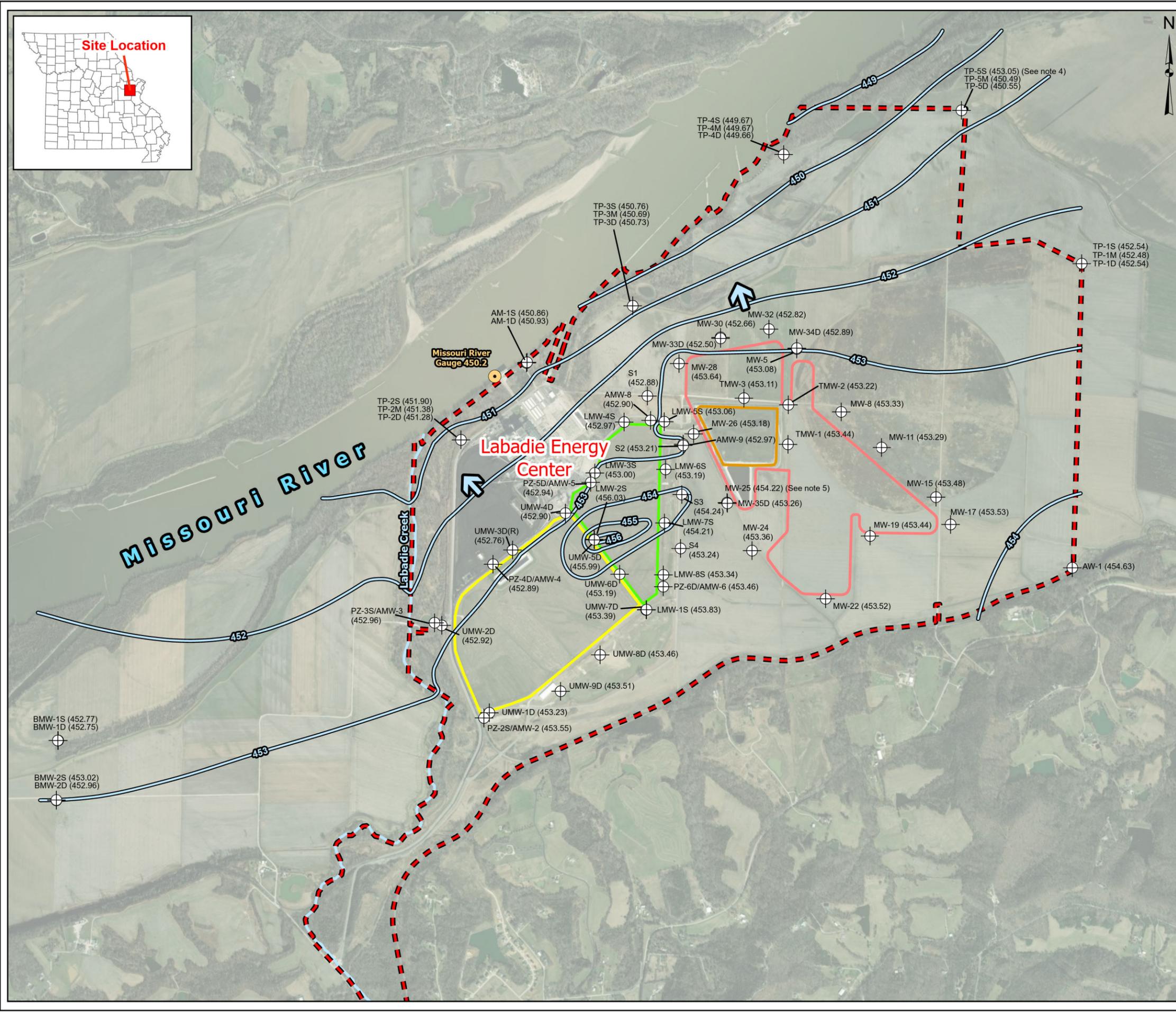
CLIENT
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LABADIE ENERGY CENTER



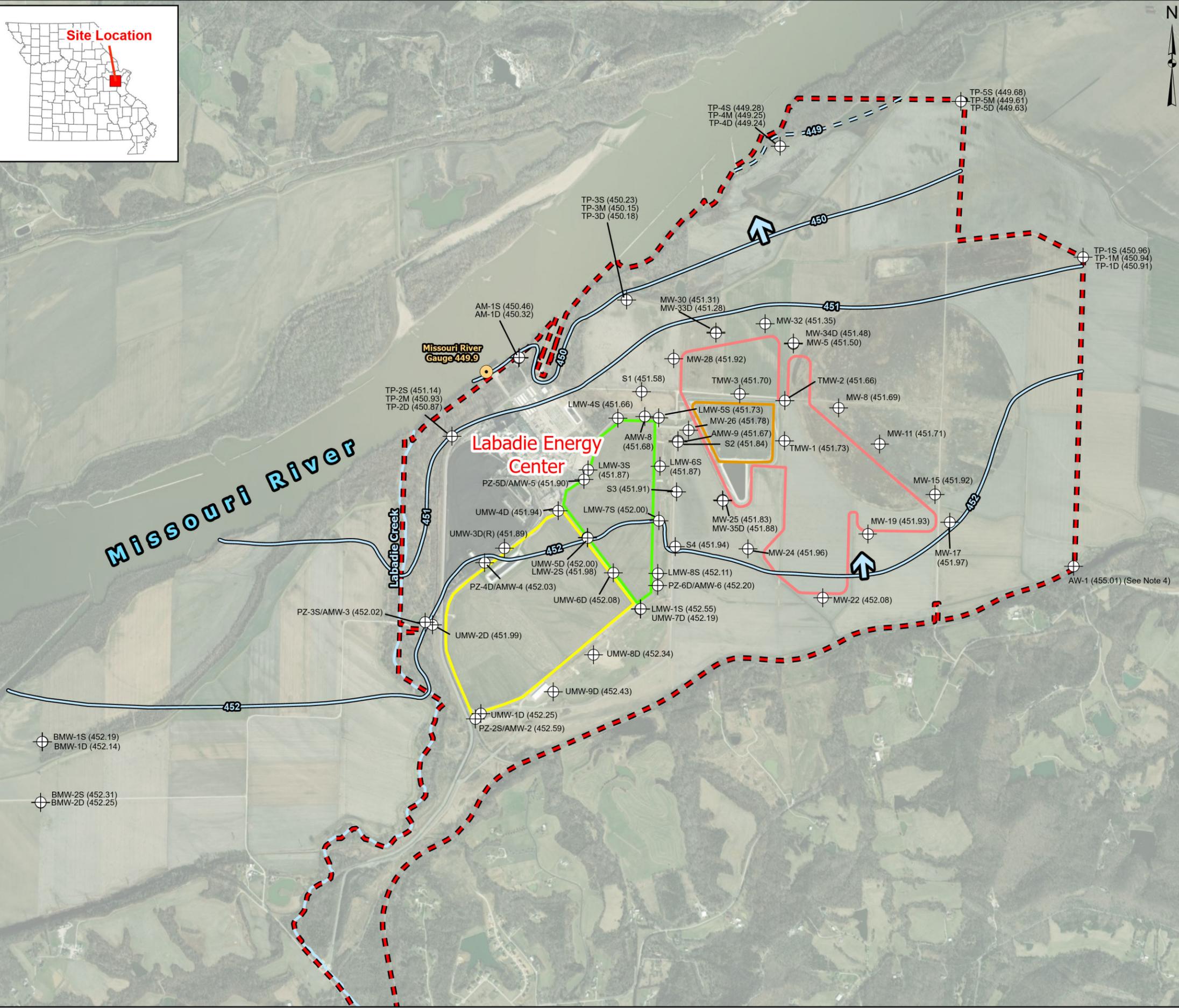
DESIGN	JSI	YYYY-MM-DD	2025-12-15
PREPARED	JDQ	PROJECT No.	23007-25
REVIEW	JTR	FIGURE B4	
APPROVED	MNH		

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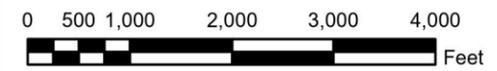
TITLE
DECEMBER 5, 2025 POTENTIOMETRIC SURFACE MAP



- Legend**
- Labadie Energy Center Property Boundary
 - CCR Units**
 - LCPA - Closed Bottom Ash Surface Impoundment
 - LCPB - Closed Fly Ash Surface Impoundment
 - LCL1 - Utility Waste Landfill Cell 1
 - Proposed Final UWL Fence Perimeter
 - Monitoring Well or Piezometer**
 - + Monitoring Well or Piezometer
 - Surface Water Elevation Measurement Location**
 - o Missouri River Gauge
 - Groundwater Elevation Contours**
 - Groundwater Elevation Contour (FT MSL)
 - Inferred Groundwater Elevation Contour (FT MSL)
 - Groundwater Flow Direction

- NOTES**
1. All locations and boundaries are approximate.
 2. Groundwater elevations displayed in FT MSL (Feet above Mean Sea Level).
 3. Missouri River Level obtained from USGS Labadie gauge 06935550.
 4. AW-1 was not used in potentiometric surface contouring due to localized conditions causing an artificially high potentiometric elevation.

- REFERENCES**
1. Zahner and Associates, Inc. 2016. Lot Consolidation Plat of "Labadie Energy Center" - Prepared for Ameren Missouri. Revised June 15, 2016.
 2. USGS (United States Geological Survey), National Water Information System, USGS Gauge 06935550 Missouri River near Labadie, MO.



PROJECT
CCR RULE GROUNDWATER MONITORING PROGRAM

CLIENT
**AMEREN MISSOURI
 LABADIE ENERGY CENTER**

	DESIGN	JSI	YYYY-MM-DD	2025-12-11
	PREPARED	JDQ	PROJECT No.	23007-25
	REVIEW	GTM	FIGURE B5	
	APPROVED	MNH		

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