

2025 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
FLY ASH LANDFILL
JEFFREY ENERGY CENTER
ST. MARYS, KANSAS

by
Haley & Aldrich, Inc.
Cleveland, Ohio

for
Evergy Kansas Central, Inc.
Topeka, Kansas

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**2025 Annual Groundwater Monitoring
and Corrective Action Report**

This Annual Groundwater Monitoring and Corrective Action Report documents the groundwater monitoring program for the Jeffrey Energy Center Fly Ash Landfill (FAL) consistent with applicable sections of 257.90 through 257.98, and describes activities conducted in the prior calendar year (2025) and documents compliance with the U.S. Environmental Protection Agency Coal Combustion Residual Rule. I certify that the 2025 Annual Groundwater Monitoring and Corrective Action Report for the JEC FAL is, to the best of my knowledge, accurate and complete.

Signed: 
Professional Geologist

Print Name: Mark Nicholls
Kansas License No.: Professional Geologist No. 881
Title: Principal Consultant
Company: Haley & Aldrich, Inc.



1. Introduction

This 2025 Annual Groundwater Monitoring and Corrective Action Report (Annual Report) addresses the Fly Ash Landfill (FAL) at the Jeffrey Energy Center (JEC), operated by Evergy Kansas Central, Inc. (Evergy). This Annual Report was developed in accordance with the U.S. Environmental Protection Agency Coal Combustion Residual (CCR) Rule (Rule) effective October 19, 2015, including subsequent revisions, specifically Title 40 Code of Federal Regulations (40 CFR), subsection 257.90(e). The Annual Report documents the groundwater monitoring system for the FAL consistent with applicable sections of 257.90 through 257.98, and describes activities conducted in the prior calendar year (2025) and document compliance with the Rule. The specific requirements for the Annual Report listed in § 257.90(e)(1)-(5) of the Rule are provided in Sections 1 and 2 of this Annual Report and are in bold italic font, followed by a short narrative describing how each Rule requirement has been met.

1.1 40 CFR § 257.90(E)(6) SUMMARY

A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:

1.1.1 40 CFR § 257.90(e)(6)(i) – Initial Monitoring Program

At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;

At the start of the current annual reporting period (January 1, 2025), the FAL was operating under an assessment monitoring program in compliance with 40 CFR § 257.95.

1.1.2 40 CFR § 257.90(e)(6)(ii) – Final Monitoring Program

At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in § 257.94 or the assessment monitoring program in § 257.95;

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

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

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

1.1.3.1 40 CFR § 257.90(e)(6)(iii)(a) – Statistically Significant Increase Constituents

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

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The FAL is operating under an assessment monitoring program. Therefore, no statistical evaluations were completed on Appendix III constituents in 2025.

1.1.3.2 40 CFR § 257.90(e)(6)(iii)(b) – Initiation of Assessment Monitoring

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

An assessment monitoring program was initiated on July 17, 2018 for the FAL and notification of assessment monitoring was provided on August 15, 2018 to meet the requirements of 40 CFR § 257.95. The FAL remained in assessment monitoring during 2025.

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

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

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

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

No statistically significant levels were identified above the groundwater protection standard for constituents listed in Appendix IV of the CCR Rule in 2025 for the FAL. The statistical evaluation reports for semiannual assessment monitoring events from September 2024 and March 2025 were completed in January 2025 and July 2025, respectively, and are included in Attachment 1.

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

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

No assessment of corrective measures was required to be initiated in 2025 for this unit. The FAL remained in assessment monitoring during 2025.

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

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

An assessment of corrective measures was not required for the FAL in 2025. Therefore, a public meeting was not held.

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

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

2025 Annual Groundwater Monitoring and Corrective Action Report

No assessment of corrective measures was required to be initiated in 2025 for this unit. The FAL remained in assessment monitoring during 2025.

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

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

The FAL remains in assessment monitoring, and no remedy was required to be selected.

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

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

No remedial activities were required at the FAL in 2025.

2. 40 CFR § 257.90 Applicability

2.1 40 CFR § 257.90(a)

All CCR landfills, CCR surface impoundments, and lateral expansions of CCR units are subject to the groundwater monitoring and corrective action requirements under §§ 257.90 through 257.99, except as provided in paragraph (g) [Suspension of groundwater monitoring requirements] of this section.

Evergy has installed and certified a groundwater monitoring system at the JEC FAL. The FAL is subject to the groundwater monitoring and corrective action requirements described under 40 CFR §§ 257.90 through 257.98. This document addresses the requirement for the Owner/Operator to prepare an Annual Report per § 257.90(e).

2.2 40 CFR § 257.90(e) – SUMMARY

Annual groundwater monitoring and corrective action report. For existing CCR landfills and existing CCR surface impoundments, no later than January 31, 2018, and annually thereafter, the owner or operator must prepare an annual groundwater monitoring and corrective action report. For new CCR landfills, new CCR surface impoundments, and all lateral expansions of CCR units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31 of the year following the calendar year a groundwater monitoring system has been established for such CCR unit as required by this subpart, and annually thereafter. For CCR management units, the owner or operator must prepare the initial annual groundwater monitoring and corrective action report no later than January 31, 2029, and annually thereafter. For the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report describes monitoring completed and actions taken for the groundwater monitoring system at the JEC FAL as required by the Rule. Groundwater sampling and analysis was conducted in accordance with the requirements described in § 257.93, and the status of the groundwater monitoring program described in § 257.94 and § 257.95 is also provided in this report. This Annual Report documents applicable groundwater-related activities completed in the calendar year 2025.

2.2.1 Status of the Groundwater Monitoring Program

The FAL remained in the assessment monitoring program during 2025.

2.2.2 Key Actions Completed

The 2024 Annual Groundwater Monitoring and Corrective Action Report was completed in January 2025. Statistical evaluation was completed in January 2025 on analytical data from the September 2024 semiannual assessment monitoring sampling event.

2025 Annual Groundwater Monitoring and Corrective Action Report

A semiannual assessment monitoring sampling event was completed in March 2025 for detected Appendix IV constituents identified from the June 2024 annual assessment monitoring sampling event. Additional samples from monitoring well MW-FAA-6 were collected in April and May 2025 to confirm analyte concentrations collected in March 2025. Statistical evaluation was completed in July 2025 on analytical data from the March 2025 semiannual assessment monitoring sampling event.

An annual assessment monitoring sampling event was completed in June 2025 to identify detected Appendix IV constituents for subsequent semiannual sampling events in September 2025 and planned for March 2026. Semiannual assessment monitoring sampling was completed in September 2025 for detected Appendix IV constituents identified during the June 2025 annual monitoring event. Statistical evaluation of the results from the September 2025 semiannual assessment monitoring sampling event are due to be completed in January 2026 and will be reported in the next annual report.

As of December 2025, groundwater elevations are no longer measured at piezometric monitoring well MW-FAA-1 due to regrading of the FAL. As indicated in Section 2.2.5, Evergy plans to replace MW-FAA-1 in 2026.

2.2.3 Problems Encountered

Problems encountered during groundwater monitoring activities consisted of:

- A laboratory error that resulted in total dissolved solids (TDS) being analyzed outside of the analytical method hold time during the March 2025 detection monitoring sampling event. Additional samples were collected from all monitoring wells for TDS on March 28, 2025. The analytical results were revised accordingly; and
- Verification samples were collected from monitoring well MW-FAA-6 in April and May 2025 to confirm the arsenic concentrations collected from the March 2025 detections monitoring sampling event.

2.2.4 Actions to Resolve Problems

The resolution to problems encountered in 2025 included collection of additional groundwater samples from all FAL monitoring wells, as described above. The analytical results for the sampling events were revised accordingly.

2.2.5 Project Key Activities for Upcoming Year

Key activities planned for 2026 include the completion of the 2025 Annual Groundwater Monitoring and Corrective Action Report, statistical evaluation of semiannual assessment monitoring analytical data collected in September 2025, semiannual assessment monitoring and subsequent statistical evaluations, and annual assessment monitoring. The installation of additional upgradient monitoring wells and replacement of piezometric monitoring well MW-FAA-1 is planned for 2026 to enhance the monitoring network at FAL.

2.3 40 CFR § 257.90(e) – INFORMATION

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

2.3.1 40 CFR § 257.90(e)(1)

A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;

As required by § 257.90(e)(1), a map showing the locations of the CCR unit and associated upgradient and downgradient monitoring wells for the FAL is included in this report as Figure 1.

2.3.2 40 CFR § 257.90(e)(2) – Monitoring System Changes

Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;

No monitoring wells were installed or decommissioned during 2025.

2.3.3 40 CFR § 257.90(e)(3) – Summary of Sampling Events

In addition to all the monitoring data obtained under § 257.90 through § 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;

In accordance with § 257.95(b) and § 257.95(d)(1), three independent assessment monitoring samples from each background and downgradient monitoring well were collected in 2025. A summary, including sample names, dates of sample collection, field parameters, and monitoring data obtained for the groundwater monitoring program for the FAL is presented in Table I of this report, with corresponding laboratory analytical reports provided in Attachment 2. Groundwater potentiometric elevation contour maps which include calculated groundwater flow rates and directions associated with each groundwater monitoring sampling event in 2025 are provided in Figures 2 through 4.

2.3.4 40 CFR § 257.90(e)(4) – Monitoring Transition Narrative

A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and

The assessment monitoring program was initiated on July 17, 2018 with a notification establishing assessment monitoring provided on August 15, 2018 to meet the requirements of 40 CFR § 257.95. The FAL remained in assessment monitoring during 2025.

2.3.5 40 CFR § 257.90(e)(5) – Other Requirements

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

This Annual Report documents activities conducted to comply with §§ 257.90 through 257.95 of the Rule. It is understood that there are supplemental references in §§ 257.90 through 257.98 that must be placed in the Annual Report. The following requirements include relevant and required information in the Annual Report for activities completed in calendar year 2025.

2.3.5.1 40 CFR § 257.94(d)(3) – Demonstration for Alternative Detection Monitoring Frequency

The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of this section. The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

An alternative groundwater detection monitoring sampling and analysis frequency has not been established for this CCR unit. Therefore, no demonstration or certification is applicable.

2.3.5.2 40 CFR § 257.94(e)(2) – Detection Monitoring Alternate Source Demonstration

The owner or operator may demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority verifying the accuracy of the information in the report. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with a detection monitoring program under this section. If a successful demonstration is not completed within the 90-day period, the owner or operator of the CCR unit must initiate an assessment monitoring program as required under § 257.95. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

This unit is in assessment monitoring. Therefore, no detection monitoring alternative source demonstration or certification is applicable.

2.3.5.3 40 CFR § 257.95(c)(3) – Demonstration for Alternative Assessment Monitoring Frequency

The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of this section. The owner or operator must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority in the annual groundwater monitoring and corrective action report required by § 257.90(e).

An alternative groundwater assessment monitoring sampling and analysis frequency has not been established for this CCR unit. Therefore, no demonstration or certification is applicable.

2.3.5.4 40 CFR § 257.95(d)(3) – Assessment Monitoring Concentrations and Groundwater Protection Standards

Include the recorded concentrations required by paragraph (d)(1) of this section, identify the background concentrations established under § 257.94(b), and identify the groundwater protection standards established under paragraph (d)(2) of this section in the annual groundwater monitoring and corrective action report required by § 257.90(e).

An assessment monitoring program has been implemented at the CCR unit since July 17, 2018. Three rounds of assessment monitoring sampling were completed in 2025. Analytical results for both downgradient and upgradient wells are provided in Table I. The background concentrations (upper tolerance limits) and groundwater protection standards (GWPS) established for detected Appendix IV constituents for the FAL are included in Tables II and III. The background concentrations and GWPS values provided in Table II and Table III were utilized for the statistical evaluations completed in 2025 for the September 2024 and March 2025 semiannual assessment monitoring events, respectively.

2.3.5.5 40 CFR § 257.95(g)(3)(ii) – Assessment Monitoring Alternate Source Demonstration

Demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Any such demonstration must be supported by a report that includes the factual or evidentiary basis for any conclusions and must be certified to be accurate by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority. If a successful demonstration is made, the owner or operator must continue monitoring in accordance with the assessment monitoring program pursuant to this section, and may return to detection monitoring if the constituents in appendices III and IV to this part are at or below background as specified in paragraph (e) of this section. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

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No assessment monitoring alternative source demonstration or certification was required in 2025. The FAL remained in assessment monitoring during 2025.

2.3.5.6 40 CFR § 257.96(a) – Demonstration for Additional Time for Assessment of Corrective Measures

Within 90 days of finding that any constituent listed in Appendix IV to this part has been detected at a statistically significant level exceeding the groundwater protection standard defined under § 257.95(h), or immediately upon detection of a release from a CCR unit, the owner or operator must initiate an assessment of corrective measures to prevent further releases, to remediate any releases and to restore affected area to original conditions. The assessment of corrective measures must be completed within 90 days, unless the owner or operator demonstrates the need for additional time to complete the assessment of corrective measures due to site-specific conditions or circumstances. The owner or operator must obtain a certification from a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority attesting that the demonstration is accurate. The 90-day deadline to complete the assessment of corrective measures may be extended for no longer than 60 days. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or the approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

No assessment of corrective measures was required to be initiated in 2025. Therefore, no demonstration or certification is applicable for this unit.

TABLES

TABLE I
SUMMARY OF ANALYTICAL RESULTS - 2025 ASSESSMENT MONITORING
EVERGY KANSAS CENTRAL, INC.
JEFFREY ENERGY CENTER, FLY ASH LANDFILL
ST. MARYS, KANSAS

Location	Upgradient				Downgradient							
	MW-FAA-5 ¹				MW-FAA-3				MW-FAA-4			
Measure Point (TOC) (ft amsl)	1250.99				1165.66				1213.81			
Sample Name	FAA-5-030625	FAA-5-032725	FAA-5-061025	FAA-5-090925	FAA-3-030625	FAA-3-032725	FAA-3-061025	FAA-3-090825	FAA-4-030625	FAA-4-032725	FAA-4-061025	FAA-4-090825
Sample Date	03/06/2025	03/27/2025	06/10/2025	09/09/2025	03/06/2025	03/27/2025	06/10/2025	09/08/2025	03/06/2025	03/27/2025	06/10/2025	09/08/2025
Final Lab Report Date	3/26/2025	4/8/2025	6/24/2025	9/30/2025	3/26/2025	4/8/2025	6/24/2025	9/30/2025	3/26/2025	4/8/2025	6/24/2025	9/30/2025
Final Lab Report Revision Date	-	-	-	-	5/1/2025	-	-	-	5/1/2025	-	-	-
Final Radiation Lab Report Date	4/4/2025	-	7/17/2025	10/8/2025	-	-	7/17/2025	10/8/2025	-	-	7/17/2025	10/8/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Validated	6/11/2025	6/11/2025	8/27/2025	11/12/2025	6/11/2025	6/11/2025	8/27/2025	11/12/2025	6/11/2025	6/11/2025	8/27/2025	11/12/2025
Depth to Water (ft btoc)	86.95	86.73	86.84	86.65	12.61	12.77	12.42	13.04	55.94	55.90	55.19	56.84
Temperature (Deg C)	11.40	16.92	18.92	20.47	14.49	16.81	19.17	15.38	10.53	22.52	17.29	15.54
Dissolved Oxygen, Field (mg/L)	0.00	0.00	0.00	0.30	0.00	0.00	0.00	1.14	0.23	0.00	4.86	0.02
ORP, Field (mV)	181	94	147	67	34	120	121	28	-15	58	163	77
Turbidity, Field (NTU)	16.3	71.1	0.2	0.0	2.2	10.0	0.2	0.4	2.4	0.0	0.2	0.0
pH, Field (su)	6.64	6.71	6.60	6.79	7.11	7.41	6.77	7.04	6.91	7.71	6.83	7.09
Conductivity, Field (µS/cm)	3960	3910	3350	3440	2310	2400	2170	2240	1820	1700	1640	1690
Boron, Total (mg/L)	1.6	-	-	1.8	0.45	-	-	0.50	0.55	-	-	0.53
Calcium, Total (mg/L)	506	-	-	520	275	-	-	281	177	-	-	188
Chloride (mg/L)	83.2	-	-	164	167	-	-	159	119	-	-	137
Fluoride (mg/L)	0.50	-	< 0.20	0.28	0.35	-	< 0.20	< 0.20	< 0.20	-	< 0.20	< 0.20
Sulfate (mg/L)	2110	-	-	2110	905	-	-	817	480	-	-	639
Total Dissolved Solids (TDS) (mg/L)	3300	3460	-	3610	1590	1680	-	1710	1190	1190	-	1210
pH (lab) (su)	7.0	-	-	6.8	7.1	-	-	6.9	7.3	-	-	7.0
Antimony, Total (mg/L)	-	-	< 0.0010	< 0.0010	-	-	< 0.0010	< 0.0010	-	-	< 0.0010	< 0.0010
Arsenic, Total (mg/L)	0.0023	-	< 0.0010	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010
Barium, Total (mg/L)	0.0031	-	0.0015	< 0.0010	0.026	-	0.026	0.028	0.046	-	0.049	0.052
Beryllium, Total (mg/L)	-	-	< 0.00050	-	-	-	< 0.00050	-	-	-	< 0.00050	-
Cadmium, Total (mg/L)	-	-	< 0.00050	-	-	-	< 0.00050	-	-	-	< 0.00050	-
Chromium, Total (mg/L)	-	-	< 0.0010	-	-	-	< 0.0010	-	-	-	< 0.0010	-
Cobalt, Total (mg/L)	0.0024	-	0.0021	0.0026	< 0.0010	-	< 0.0010	< 0.0010	< 0.0010	-	< 0.0010	< 0.0010
Fluoride (mg/L)	0.50	-	< 0.20	0.28	0.35	-	< 0.20	< 0.20	< 0.20	-	< 0.20	< 0.20
Lead, Total (mg/L)	-	-	< 0.0010	< 0.0010	-	-	< 0.0010	< 0.0010	-	-	0.0019	< 0.0010
Lithium, Total (mg/L)	0.28	-	0.16	0.16	0.025	-	0.013	0.017	0.041	-	0.020	0.021
Molybdenum, Total (mg/L)	0.023	-	0.020	0.020	0.0039	-	0.0037	0.0047	0.0071	-	0.0062	0.0065
Selenium, Total (mg/L)	-	-	< 0.0010	-	-	-	< 0.0010	-	-	-	< 0.0010	-
Thallium, Total (mg/L)	-	-	< 0.0010	-	-	-	< 0.0010	-	-	-	< 0.0010	-
Mercury, Total (mg/L)	< 0.00020	-	< 0.00020	< 0.00020	< 0.00020	-	< 0.00020	< 0.00020	0.00083	-	0.00081	0.00075
Radium-226 & 228 (pCi/L)	-	-	1.76 ± 0.867 (1.12)	1.42 ± 0.619 (0.679)	-	-	0.741 ± 0.623 (0.902)	0.524 ± 0.474 (0.714)	-	-	1.08 ± 0.613 (0.778)	0.510 ± 0.696 (1.00)

Notes:

Bold value : Detection above laboratory reporting limit or minimum detectable concentration (MDC).

Radiological results are presented as activity plus or minus uncertainty with MDC.

¹ = Additional constituents provided in the laboratory reports were utilized for analysis at other units and are not applicable to the current FAL groundwater monitoring program; therefore, those constituents are not provided in this table.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft amsl = feet above mean sea level

ft btoc = feet below top of casing

mg/L = milligrams per liter

mV = millivolt

N/A = Not Applicable

NTU = Nephelometric Turbidity Unit

ORP = oxidation reduction potential

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

TABLE I
SUMMARY OF ANALYTICAL RESULTS - 2025 ASSESSMENT MONITORING
EVERGY KANSAS CENTRAL, INC.
JEFFREY ENERGY CENTER, FLY ASH LANDFILL
ST. MARYS, KANSAS

Location	Downgradient									
	MW-FAA-6									
Measure Point (TOC) (ft amsl)	1162.76									
Sample Name	FAA-6-030625	JEC-FAA-DUP-030625	FAA-6-032725	JEC-FAA-DUP-032725	FAA-6-043025	FAL-FAA-6-051625	FAA-6-061025	JEC-FAA-DUP-061025	FAA-6-090825	JEC-FAA-DUP-090825
Sample Date	03/06/2025	03/06/2025	03/27/2025	03/27/2025	04/30/2025	05/16/2025	06/10/2025	06/10/2025	09/08/2025	09/08/2025
Final Lab Report Date	3/26/2025	3/26/2025	4/8/2025	4/8/2025	5/6/2025	5/22/2025	6/24/2025	6/24/2025	9/30/2025	9/30/2025
Final Lab Report Revision Date	5/1/2025	5/1/2025	-	-	5/28/2025	-	-	-	-	-
Final Radiation Lab Report Date	-	-	-	-	-	-	7/17/2025	7/17/2025	10/8/2025	10/8/2025
Final Radiation Lab Report Revision Date	-	-	-	-	-	-	-	-	-	-
Lab Data Reviewed and Validated	6/11/2025	6/11/2025	6/11/2025	6/11/2025	6/11/2025	6/11/2025	8/27/2025	8/27/2025	11/12/2025	11/12/2025
Depth to Water (ft boc)	13.89	13.89	14.10	14.10	13.61	13.98	13.98	13.98	14.00	14.00
Temperature (Deg C)	14.59	-	16.79	-	15.90	16.80	17.98	-	15.85	-
Dissolved Oxygen, Field (mg/L)	0.00	-	0.00	-	0.00	0.00	0.17	-	5.51	-
ORP, Field (mV)	-41	-	93	-	-22	-33	12	-	-212	-
Turbidity, Field (NTU)	2.7	-	8.7	-	1.3	1.6	0.3	-	0.0	-
pH, Field (su)	8.36	-	8.40	-	8.18	7.74	7.25	-	8.76	-
Conductivity, Field (µS/cm)	2800	-	2830	-	3220	3250	2610	-	3290	-
Boron, Total (mg/L)	3.3	3.4	-	-	-	-	-	-	3.5	3.6
Calcium, Total (mg/L)	71.6	75.0	-	-	-	-	-	-	94.0	94.4
Chloride (mg/L)	79.7	77.4	-	-	-	-	-	-	56.4	59.4
Fluoride (mg/L)	0.34	0.34	-	-	-	-	0.29	0.29	0.65	0.65
Sulfate (mg/L)	1340	1340	-	-	-	-	-	-	1350	1990
Total Dissolved Solids (TDS) (mg/L)	1990	2040	1880	1880	-	-	-	-	2390	2360
pH (lab) (su)	8.5	7.2	-	-	-	-	-	-	8.5	8.5
Antimony, Total (mg/L)	-	-	-	-	-	-	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Arsenic, Total (mg/L)	0.012	0.011	-	-	0.011	0.0083	0.0088	0.0085	0.0088	0.0092
Barium, Total (mg/L)	0.017	0.017	-	-	-	-	0.020	0.020	0.021	0.021
Beryllium, Total (mg/L)	-	-	-	-	-	-	< 0.00050	< 0.00050	-	-
Cadmium, Total (mg/L)	-	-	-	-	-	-	< 0.00050	< 0.00050	-	-
Chromium, Total (mg/L)	-	-	-	-	-	-	< 0.0010	< 0.0010	-	-
Cobalt, Total (mg/L)	< 0.0010	< 0.0010	-	-	-	-	0.0011	0.0010	< 0.0010	< 0.0010
Fluoride (mg/L)	0.34	0.34	-	-	-	-	0.29	0.29	0.65	0.65
Lead, Total (mg/L)	-	-	-	-	-	-	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Lithium, Total (mg/L)	< 0.010	< 0.010	-	-	-	-	< 0.010	< 0.010	< 0.010	< 0.010
Molybdenum, Total (mg/L)	0.39	0.39	-	-	-	-	0.39	0.37	0.53	0.55
Selenium, Total (mg/L)	-	-	-	-	-	-	< 0.0010	< 0.0010	-	-
Thallium, Total (mg/L)	-	-	-	-	-	-	< 0.0010	< 0.0010	-	-
Mercury, Total (mg/L)	< 0.00020	< 0.00020	-	-	-	-	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Radium-226 & 228 (pCi/L)	-	-	-	-	-	-	0.561 ± 0.594 (0.945)	0.395 ± 0.544 (0.887)	1.69 ± 0.972 (1.39)	1.42 ± 0.737 (0.970)

Notes:

Bold value : Detection above laboratory reporting limit or minimum detectable concentration (MDC).

Radiological results are presented as activity plus or minus uncertainty with MDC.

¹ = Additional constituents provided in the laboratory reports were utilized for analysis at other units and are not applicable to the current FAL groundwater monitoring program; therefore, those constituents are not provided in this table.

µS/cm = micro Siemens per centimeter

Deg C = degrees Celsius

ft amsl = feet above mean sea level

ft btoc = feet below top of casing

mg/L = milligrams per liter

mV = millivolt

N/A = Not Applicable

NTU = Nephelometric Turbidity Unit

ORP = oxidation reduction potential

pCi/L = picoCuries per liter

su = standard unit

TDS = total dissolved solids

TOC = top of casing

TABLE II
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
SEPTEMBER 2024 SAMPLING EVENT
 JEFFREY ENERGY CENTER FLY ASH LANDFILL
 ST. MARYS, KANSAS

Well Number	Background Value ¹	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-FAA-5 (upgradient)	0.0054	NA
MW-FAA-3		0.010
MW-FAA-4		0.010
MW-FAA-6		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-FAA-5 (upgradient)	0.013	NA
MW-FAA-3		2
MW-FAA-4		2
MW-FAA-6		2
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-FAA-5 (upgradient)	0.0049	NA
MW-FAA-3		0.006
MW-FAA-4		0.006
MW-FAA-6		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-FAA-5 (upgradient)	1.291	NA
MW-FAA-3		4.0
MW-FAA-4		4.0
MW-FAA-6		4.0
CCR Appendix-IV Lithium, Total (mg/L)		
MW-FAA-5 (upgradient)	0.173	NA
MW-FAA-3		0.173
MW-FAA-4		0.173
MW-FAA-6		0.173
CCR Appendix-IV Mercury, Total (mg/L)		
MW-FAA-5 (upgradient)	0.0002	NA
MW-FAA-3		0.002
MW-FAA-4		0.002
MW-FAA-6		0.002
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-FAA-5 (upgradient)	0.067	NA
MW-FAA-3		0.100
MW-FAA-4		0.100
MW-FAA-6	0.844 ²	0.844

Notes:

¹ Interwell background data collected from 08/19/2016 through 03/13/2024, unless otherwise noted.

² Intrawell background data collected from 08/19/2016 through 06/06/2023.

CCR = coal combustion residuals

GWPS = groundwater protection standard

MCL = maximum contaminant level

mg/L = milligrams per liter

NA = Not Applicable

pCi/L = picoCuries per liter

TABLE III
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
MARCH 2025 SAMPLING EVENT
 JEFFREY ENERGY CENTER FLY ASH LANDFILL
 ST. MARYS, KANSAS

Well Number	Background Value ¹	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-FAA-5 (upgradient)	0.0054	NA
MW-FAA-3		0.010
MW-FAA-4		0.010
MW-FAA-6		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-FAA-5 (upgradient)	0.013	NA
MW-FAA-3		2
MW-FAA-4		2
MW-FAA-6		2
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-FAA-5 (upgradient)	0.0049	NA
MW-FAA-3		0.006
MW-FAA-4		0.006
MW-FAA-6		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-FAA-5 (upgradient)	1.291	NA
MW-FAA-3		4.0
MW-FAA-4		4.0
MW-FAA-6		4.0
CCR Appendix-IV Lithium, Total (mg/L)		
MW-FAA-5 (upgradient)	0.173	NA
MW-FAA-3		0.173
MW-FAA-4		0.173
MW-FAA-6		0.173
CCR Appendix-IV Mercury, Total (mg/L)		
MW-FAA-5 (upgradient)	0.0002	NA
MW-FAA-3		0.002
MW-FAA-4		0.002
MW-FAA-6		0.002
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-FAA-5 (upgradient)	0.067	NA
MW-FAA-3		0.100
MW-FAA-4		0.100
MW-FAA-6	0.818 ²	0.818

Notes:

¹ Interwell background data collected from 08/19/2016 through 03/14/2024, unless otherwise noted.

² Intrawell background data collected from 08/19/2016 through 09/04/2024.

CCR = coal combustion residuals

GWPS = groundwater protection standard

MCL = maximum contaminant level

mg/L = milligrams per liter

NA = Not Applicable

pCi/L = picoCuries per liter

FIGURES

GIS: \\haleyaldrich.com\share\pdx_common\Projects\Westar\GIS\Jeffrey Energy_Center\Maps\2024_011123778_054_0001_FAL_MONITORING_WELL_LOCATION_MAP.mxd - khensen - 1/20/2025 12:50:03 PM



LEGEND

-  MONITORING WELL
-  PIEZOMETER OBSERVATION ONLY
-  FLY ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY SOURCE: ESRI, 17 NOVEMBER 2023



EVERGY KANSAS CENTRAL, INC.
JEFFREY ENERGY CENTER
ST. MARYS, KANSAS

**FLY ASH LANDFILL
MONITORING WELL LOCATION MAP**



JANUARY 2026

FIGURE 1

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LEGEND

-  MONITORING WELL
-  PIEZOMETER OBSERVATION ONLY
-  ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, IN FEET
-  GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
-  FLY ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED 6 MARCH 2025.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 6 MARCH 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM SLUG TESTS COMPLETED APRIL 2016.
4. GROUNDWATER ELEVATION IN **BOLD BLUE TEXT** AND IN FEET ABOVE MEAN SEA LEVEL (AMSL).
5. AERIAL IMAGERY SOURCE: GOOGLE EARTH



EVERGY KANSAS CENTRAL, INC.
JEFFREY ENERGY CENTER
ST. MARYS, KANSAS

**FLY ASH LANDFILL
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
MARCH 6, 2025**



JANUARY 2026

FIGURE 2

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LEGEND

-  MONITORING WELL
-  PIEZOMETER OBSERVATION ONLY
-  ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, IN FEET
-  GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
-  FLY ASH LANDFILL BOUNDARY

FAL_contour_surfer_2ft_interval_062025

Type

-  Flow Direction
-  continuous
-  inferred

 FAL_Outline

NOTES Transparency mask for imagery

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED JUNE 10, 2025.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED JUNE 10, 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM SLUG TESTS COMPLETED APRIL 2016.
4. GROUNDWATER ELEVATION IN **BOLD BLUE TEXT** AND IN FEET ABOVE MEAN SEA LEVEL (AMSL).
5. AERIAL IMAGERY SOURCE: GOOGLE EARTH



EVERGY KANSAS CENTRAL, INC.
JEFFREY ENERGY CENTER
ST. MARYS, KANSAS

**FLY ASH LANDFILL
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
JUNE 10, 2025**



JANUARY 2026

FIGURE 3

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LEGEND

-  ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, IN FEET
-  GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
-  MONITORING WELL
-  PIEZOMETER OBSERVATION ONLY
-  FLY ASH LANDFILL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED SEPTEMBER 8, 2025.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED SEPTEMBER 8, 2025 AND THE CONDUCTIVITY VALUES AND EFFECTIVE POROSITY VALUES OBTAINED FROM SLUG TESTS COMPLETED APRIL 2016.
4. GROUNDWATER ELEVATION IN **BOLD BLUE TEXT** AND IN FEET ABOVE MEAN SEA LEVEL (AMSL).
5. AERIAL IMAGERY SOURCE: GOOGLE EARTH



EVERGY KANSAS CENTRAL, INC.
JEFFREY ENERGY CENTER
ST. MARYS, KANSAS

**FLY ASH LANDFILL
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
SEPTEMBER 8, 2025**



JANUARY 2026

FIGURE 4

ATTACHMENT 1
Statistical Analyses

ATTACHMENT 1-1
September 2024 Semiannual Groundwater Assessment
Monitoring Data Statistical Evaluation



HALEY & ALDRICH, INC.
6500 Rockside Road
Suite 200
Cleveland, OH 44131
216.739.0555

TECHNICAL MEMORANDUM

January 9, 2025
File No. 0210308-000

TO: Evergy Kansas Central, Inc.
Jared Morrison – Director, Water and Waste Programs

FROM: Haley & Aldrich, Inc.
Steven F. Putrich, P.E., Principal Consultant – Engineering Principal
Mark Nicholls, P.G., Principal Consultant –Hydrogeologist

SUBJECT: September 2024 Semiannual Groundwater Assessment Monitoring Data
Statistical Evaluation
Completed December 18, 2024
Jeffrey Energy Center
Fly Ash Landfill

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §§ 257.93 and 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the **September 2024** semiannual assessment monitoring groundwater sampling event for the Jeffrey Energy Center (JEC) Fly Ash Landfill (FAL). This semiannual assessment monitoring groundwater sampling event was completed on **September 4, 2024**. All laboratory results were received and validated on **November 14, 2024**. Well MW-FAA-6 was resampled on **October 23, 2024** to confirm the arsenic and molybdenum concentrations collected on September 4, 2024.

The statistical evaluation discussed in this memorandum was conducted to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at concentrations that represent a statistically significant increase (SSI) above background values and if one or more of the constituents have been detected at a statistically significant level (SSL) above the groundwater protection standard (GWPS) consistent with the requirements of the Rule. GWPS values for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level, levels provided in 40 CFR § 257.95(h)(2) (from regional screening levels), or background concentrations.

Statistical Evaluation of Appendix IV Constituents

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR § 257.93(f)(1-4)). The statistical method used for these evaluations (tolerance limit [TL]) was certified by Haley & Aldrich, Inc. on January 14, 2019. The TL method, as determined applicable for this sampling event, was used to evaluate potential SSLs above

background. Background levels for each constituent listed in Appendix IV were computed as upper tolerance limits (UTL), and a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling event from each compliance well was compared to the corresponding background UTL to determine if a SSL existed.

STATISTICAL EVALUATION

Interwell or intrawell evaluation methods were used to determine SSLs based on the documented groundwater quality variability at each well. Interwell evaluation compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data, and the intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of historical data from the subject well. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) semiannual assessment monitoring data.

The TL method was used to complete statistical evaluations of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

These statistical evaluations were conducted using a background dataset for all Appendix IV constituents that were detected in the annual assessment monitoring sample event using parametric TLs. If an Appendix IV constituent concentration from the **September 2024** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if an SSI is present. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

The UTLs were calculated from the background well dataset using Chemstat software after testing for outlier sample results that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using box plots and distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample location MW-FAA-5 (for interwell evaluation) were pooled to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. In accordance with the document titled *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*, March 2009, background concentrations were updated based on statistical evaluation of analytical results collected through **March 2024** for **interwell evaluation**. Background concentrations were updated through **June 2023** for **intrawell evaluation**.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

Sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **September 2024** semiannual assessment monitoring event were compared to their respective background UTLs and GWPSs (Table I). A sample concentration greater than the background UTL is considered to represent an SSI. A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events, statistical evaluations, and associated alternative source demonstrations, an intrawell comparison is utilized for FAA-6 for molybdenum statistical evaluations. Interwell comparisons are being utilized for all other well and constituent evaluations. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation of groundwater sampling data collected in September 2024, no SSLs above GWPS occurred at the JEC FAL.**

Attachments:

Table I – Summary of Semiannual Assessment Groundwater Monitoring Statistical Evaluation

TABLE

TABLE I
SUMMARY OF SEMIANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
 SEPTEMBER 2024 SAMPLING EVENT
 JEFFREY ENERGY CENTER FLY ASH LANDFILL
 ST. MARYS, KANSAS

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL or CFR § 257.95(h)(2)*	Report Result Unit	MCL Comparison		Outlier Presence	Outlier Removed	Trend	Distribution Well	Interwell Analysis			Intrawell Analysis		Groundwater Protection Standard	
										Number of Detection Exceedances	Number of Non-Detection Exceedances					September/October 2024 Concentration (mg/L)	Background Limits ¹ (UTL) mg/L	SSI	Background Limits ² (UTL) mg/L	SSI	GWPS (Higher of MCL/40 CFR § 257.95(h)(2) or UTL)	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																						
MW-FAA-5	15/28	46%	0.001-0.005	0.0054	0.000001513	0.00123	0.7771	0.01	mg/L	0	0	Yes	No	Stable	Non-parametric	0.0012	0.0054				0.010	
MW-FAA-3	5/28	82%	0.001-0.001	0.0011	1.378E-09	0.00003712	0.03687	0.01	mg/L	0	0	Yes	No	NT	Non-parametric	0.0011		No				No
MW-FAA-4	0/28	100%	0.0005-0.001		8.929E-09	0.00009449	0.09621	0.01	mg/L	0	0	NA	NA	NA	NA	<0.0010		No				No
MW-FAA-6	28/28	0%	-	0.01	0.000004078	0.002019	0.3086	0.01	mg/L	0	0	No	No	Increase	Non-parametric	0.010		Yes				No
CCR Appendix-IV: Barium, Total (mg/L)																						
MW-FAA-5	5/28	82%	0.005-0.01	0.013	0.000005698	0.002387	0.3828	2	mg/L	0	0	Yes	No	NT	Non-parametric	<0.005	0.013				2	
MW-FAA-3	28/28	0%	-	0.047	0.00002208	0.004699	0.15	2	mg/L	0	0	Yes	No	Decrease	Normal	0.028		Yes				No
MW-FAA-4	28/28	0%	-	0.053	0.00000718	0.00268	0.0546	2	mg/L	0	0	No	No	Decrease	Normal	0.049		Yes				No
MW-FAA-6	28/28	0%	-	0.067	0.0002991	0.01729	0.4374	2	mg/L	0	0	Yes	No	Decrease	Non-parametric	0.021		Yes				No
CCR Appendix-IV: Cobalt, Total (mg/L)																						
MW-FAA-5	23/28	18%	0.001-0.005	0.0056	0.000001859	0.001363	0.5624	0.006	mg/L	0	0	No	No	Stable	Normal	0.0025	0.0049				0.006	
MW-FAA-3	2/28	93%	0.001-0.001	0.00058	0.000000014	0.0001183	0.1222	0.006	mg/L	0	0	Yes	No	NT	Non-parametric	<0.0010		No				No
MW-FAA-4	10/28	64%	0.0005-0.001	0.0027	2.226E-07	0.0004718	0.3764	0.006	mg/L	0	0	Yes	No	Stable	NA	<0.0010		No				No
MW-FAA-6	24/28	14%	0.001-0.001	0.0021	1.108E-07	0.0003329	0.2381	0.006	mg/L	0	0	No	No	Stable	Normal	<0.0010		No				No
CCR Appendix-IV: Fluoride (mg/L)																						
MW-FAA-5	25/29	14%	0.2-0.2	1.6	0.1225	0.35	0.4873	4	mg/L	0	0	No	No	Stable	Normal	0.79	1.291				4.0	
MW-FAA-3	20/29	31%	0.2-0.2	0.63	0.009701	0.09849	0.3209	4	mg/L	0	0	Yes	No	Stable	Normal	0.30		No				No
MW-FAA-4	20/29	31%	0.2-0.2	0.5	0.008405	0.09168	0.2981	4	mg/L	0	0	No	No	Stable	Normal	0.26		No				No
MW-FAA-6	26/29	10%	0.2-0.2	1.2	0.07097	0.2664	0.3745	4	mg/L	0	0	No	No	Decrease	Normal	1.00		No				No
CCR Appendix-IV: Lithium, Total (mg/L)																						
MW-FAA-5	28/28	0%	-	0.16	0.0007011	0.02648	0.2073	0.04	mg/L	28	0	No	No	Increase	Normal	0.140	0.173				0.173	
MW-FAA-3	24/28	14%	0.01-0.03	0.023	0.00001707	0.004132	0.2588	0.04	mg/L	0	0	Yes	No	Stable	Normal	0.015		No				No
MW-FAA-4	25/28	11%	0.01-0.03	0.026	0.00002116	0.0046	0.2453	0.04	mg/L	0	0	No	No	Increase	Normal	0.023		No				No
MW-FAA-6	18/28	36%	0.01-0.03	0.016	0.0000178	0.00422	0.33	0.04	mg/L	0	0	Yes	No	Stable	Non-parametric	<0.010		No				No
CCR Appendix-IV: Mercury, Total (mg/L)																						
MW-FAA-5	0/24	100%	8.3E-05-0.0002		5.704E-10	0.00002388	0.1224	0.002	mg/L	0	0	NA	NA	NA	NA	<0.00020	0.0002				0.002	
MW-FAA-3	0/20	100%	2.4E-05-0.0002		1.549E-09	0.00003935	0.2058	0.002	mg/L	0	0	NA	NA	NA	NA	<0.00020		No				No
MW-FAA-4	6/20	70%	0.0002-0.0002	0.0015	1.418E-07	0.0003766	1.018	0.002	mg/L	0	0	Yes	No	NT	Non-parametric	0.0015		Yes				No
MW-FAA-6	0/20	100%	0.0002-0.0002		0	0	0	0.002	mg/L	0	0	NA	NA	NA	NA	<0.00020		No				No
CCR Appendix-IV: Molybdenum, Total (mg/L)																						
MW-FAA-5	28/28	0%	-	0.067	0.0001779	0.01334	0.4662	0.1	mg/L	0	0	Yes	No	Decrease	Non-parametric	0.021	0.067				0.100	
MW-FAA-3	28/28	0%	-	0.014	0.000007949	0.002819	0.3321	0.1	mg/L	0	0	No	No	Decrease	Normal	0.0042		No				No
MW-FAA-4	28/28	0%	-	0.011	0.000006485	0.002547	0.4308	0.1	mg/L	0	0	No	No	Increase	Normal	0.0060		No				No
MW-FAA-6	28/28	0%	-	0.59	0.01779	0.1334	0.3446	0.1	mg/L	28	0	No	No	Decrease	Normal	0.550		Yes	0.844	No	0.844	No

Notes:
¹ Based on background data collected from 08/19/2016 through 03/13/2024, unless otherwise noted.
² Based on background data collected from 08/19/2016 through 06/06/2023.
 * Values obtained from U.S. Environmental Protection Agency Federal CCR Rule Title 40 Code of Federal Regulations (CFR) § 257.95(h)(2)
 CCR = coal combustion residuals
 GWPS = Groundwater Protection Standard
 MCL = maximum contaminant level
 mg/L = milligrams per Liter
 NA = not analyzed
 pCi/L = picoCuries per Liter
 SSI = statistically significant increase
 SSL = statistically significant level
 UTL = upper tolerance limits

ATTACHMENT 1-2
March 2025 Semiannual Groundwater Assessment
Monitoring Data Statistical Evaluation



HALEY & ALDRICH, INC.
6500 Rockside Road
Suite 200
Cleveland, OH 44131
216.739.0555

TECHNICAL MEMORANDUM

August 12, 2025
File No. 0210308-001

TO: Evergy Kansas Central, Inc.
Jared Morrison – Director, Water and Waste Programs

FROM: Haley & Aldrich, Inc.
Steven F. Putrich, P.E., Principal Consultant – Engineering Principal
Mark Nicholls, P.G., Principal Consultant –Hydrogeologist

SUBJECT: March 2025 Semiannual Groundwater Assessment Monitoring Data
Statistical Evaluation
Completed July 29, 2025
Jeffrey Energy Center, Fly Ash Landfill
St. Marys, Kansas

Pursuant to Title 40 Code of Federal Regulations (40 CFR) §§ 257.93 and 257.95 (Rule), this memorandum summarizes the statistical evaluation of the analytical results for the **March 2025** semiannual assessment monitoring groundwater sampling event for the Jeffrey Energy Center (JEC) Fly Ash Landfill (FAL). This semiannual assessment monitoring groundwater sampling event was completed on **March 6 and 27, 2025**. All laboratory results were received and validated on **June 11, 2025**. All monitoring wells were resampled for total dissolved solids (TDS) on March 27, 2025, because of a laboratory error, which caused TDS in the original samples to be analyzed outside of the analytical method hold time. Well MW-FAA-6 was resampled on **April 30 and May 16, 2025** to confirm the arsenic concentration in the sample collected on March 6, 2025.

The statistical evaluation discussed in this memorandum was conducted to determine if Appendix IV groundwater monitoring constituents have been detected in downgradient wells at concentrations that represent a statistically significant increase (SSI) above background values and if one or more of the constituents have been detected at a statistically significant level (SSL) above the groundwater protection standard (GWPS) consistent with the requirements of the Rule. The GWPS values for each of the Appendix IV constituents have been set equal to the highest value of the maximum contaminant level, levels provided in 40 CFR § 257.95(h)(2) (from regional screening levels), or background concentrations.

Statistical Evaluation of Appendix IV Constituents

The Rule provides four specific options for statistical evaluation of groundwater quality data collected at a coal combustion residual (CCR) unit (40 CFR § 257.93(f)(1-4)). The statistical method used for this evaluation (tolerance limit [TL]) was certified by Haley & Aldrich, Inc. on January 14, 2019. The TL method, as determined applicable for this sampling event, was used to evaluate potential SSLs above background. Background levels for each constituent listed in Appendix IV were computed as upper tolerance limits (UTL), and a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling event from each compliance well was compared to the corresponding background UTL to determine if an SSL existed.

STATISTICAL EVALUATION

Interwell or intrawell evaluation methods were used to determine SSLs based on the documented groundwater quality variability at each well. Interwell evaluation compares the most recent values from downgradient compliance wells against a background dataset composed of upgradient well data, and the intrawell evaluation compares the most recent values from each compliance well against a background dataset composed of historical data from the subject well. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluation was conducted on Appendix III (detection monitoring) semiannual assessment monitoring data.

The TL method was used to complete statistical evaluation of the referenced dataset. The TL procedure is one in which a concentration limit for each constituent is established from the distribution of the background data, with a minimum 95 percent confidence level. The upper endpoint of a tolerance interval is called the UTL. Depending on the data distribution, parametric or non-parametric TL procedures are used to evaluate groundwater monitoring data using this method. Parametric TLs utilize normally distributed data or normalized data via a transformation of the sample background data used to construct the limit. If the data are non-normal and a transformation is not indicated, non-parametric procedures (order statistics or bootstrap methods) are used to calculate the TL. If all the background data are non-detect, a maximum reporting limit may serve as an appropriate UTL.

This statistical evaluation was conducted using a background dataset for all Appendix IV constituents that were detected in the annual assessment monitoring sample event using parametric TLs. If an Appendix IV constituent concentration from the **March 2025** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if an SSI is present. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

The UTL values were calculated from the background well dataset using Chemstat software after testing for outlier sample results that would warrant removal from the dataset based on likely error in sampling or measurement. Both visual and statistical outlier tests for the background data were performed using Chemstat and U.S. Environmental Protection Agency's ProUCL 5.1 software, and a visual inspection of the data was performed using box plots and distribution plots for the downgradient sample data. No sample data were identified as outliers that warranted removal from the dataset.

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample location MW-FAA-5 (for interwell evaluation) were pooled to calculate the UTL for each detected Appendix IV constituent. The variability and distribution of the pooled dataset were evaluated to determine the method for UTL calculation. In accordance with the document titled *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*, March 2009, background concentrations were updated based on statistical evaluation of analytical results collected through **March 2024** for **interwell evaluation**. Background concentrations were updated through **September 2024** for **intra-well evaluation**.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

Sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **March 2025** semiannual assessment monitoring event were compared to their respective background UTL and GWPS values (Table I). A sample concentration greater than the background UTL is considered to represent an SSI. A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events, statistical evaluation, and associated alternative source demonstrations, an intra-well comparison was used for analysis of molybdenum at well FAA-6. Interwell comparisons are used for all other well and constituent analyses. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation of groundwater sampling data collected in March 2025, no SSLs above GWPS occurred at the JEC FAL.**

Attachments:

Table I – Summary of Semiannual Assessment Groundwater Monitoring Statistical Evaluation

TABLE

TABLE I
SUMMARY OF SEMIANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
MARCH 2025 SAMPLING EVENT
JEFFREY ENERGY CENTER FLY ASH LANDFILL
ST. MARYS, KANSAS

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL or CFR § 257.95(h)(2)*	Report Result Unit	MCL Comparisons		Outlier Presence	Outlier Removed	Trend	Distribution Well	Interwell Analysis			Intrawell Analysis		Groundwater Protection Standard	
										Number of Detection Exceedances	Number of Non-Detection Exceedances					March 2025 Concentration (mg/L)	Background Limits ¹ (UTL) mg/L	SSI	Background Limits ² (UTL) mg/L	SSI	GWPS (Higher of MCL/40 CFR § 257.95(h)(2) or UTL)	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																						
MW-FAA-5	16/29	45%	0.001-0.005	0.0054	0.00001477	0.001215	0.7559	0.01	mg/L	0	0	Yes	No	Stable	Non-parametric	0.0023	0.0054				0.010	
MW-FAA-3	5/29	83%	0.001-0.001	0.0011	1.331E-09	0.00003648	0.03624	0.01	mg/L	0	0	Yes	No	NT	Non-parametric	<0.0010		No				No
MW-FAA-4	0/29	100%	0.0005-0.001		8.621E-09	0.00009285	0.09448	0.01	mg/L	0	0	NA	NA	NA	NA	<0.0010		No				No
MW-FAA-6	29/29	0%	-	0.01	0.00004039	0.00201	0.3043	0.01	mg/L	0	0	No	No	Increase	Non-parametric	0.0083		Yes				No
CCR Appendix-IV: Barium, Total (mg/L)																						
MW-FAA-5	6/29	79%	0.005-0.01	0.013	0.00005833	0.002415	0.3942	2	mg/L	0	0	Yes	No	NT	Non-parametric	0.0031	0.013				2	
MW-FAA-3	29/29	0%	-	0.047	0.00002227	0.004719	0.1515	2	mg/L	0	0	Yes	No	Decrease	Normal	0.026		Yes				No
MW-FAA-4	29/29	0%	-	0.053	0.000007249	0.002692	0.05498	2	mg/L	0	0	No	No	Decrease	Normal	0.046		Yes				No
MW-FAA-6	29/29	0%	-	0.067	0.0003059	0.01749	0.4513	2	mg/L	0	0	Yes	No	Decrease	Non-parametric	0.017		Yes				No
CCR Appendix-IV: Cobalt, Total (mg/L)																						
MW-FAA-5	24/29	17%	0.001-0.005	0.0056	0.00001793	0.001339	0.5525	0.006	mg/L	0	0	No	No	Stable	Normal	0.0024	0.0049				0.006	
MW-FAA-3	2/29	93%	0.001-0.001	0.00058	1.353E-08	0.0001163	0.12	0.006	mg/L	0	0	Yes	No	NT	Non-parametric	<0.0010		No				No
MW-FAA-4	10/29	66%	0.0005-0.001	0.0027	2.168E-07	0.0004657	0.3741	0.006	mg/L	0	0	Yes	No	Stable	NA	<0.0010		No				No
MW-FAA-6	24/29	17%	0.001-0.001	0.0021	1.123E-07	0.0003351	0.2421	0.006	mg/L	0	0	No	No	Stable	Normal	<0.0010		No				No
CCR Appendix-IV: Fluoride (mg/L)																						
MW-FAA-5	26/30	13%	0.2-0.2	1.6	0.1199	0.3462	0.4869	4	mg/L	0	0	No	No	Stable	Normal	0.50	1.291				4.0	
MW-FAA-3	21/30	30%	0.2-0.2	0.63	0.009428	0.0971	0.3149	4	mg/L	0	0	Yes	No	Stable	Normal	0.35		No				No
MW-FAA-4	20/30	33%	0.2-0.2	0.5	0.008501	0.0922	0.3033	4	mg/L	0	0	No	No	Stable	Normal	<0.20		No				No
MW-FAA-6	27/30	10%	0.2-0.2	1.2	0.07312	0.2704	0.3868	4	mg/L	0	0	No	No	Decrease	Normal	0.34		No				No
CCR Appendix-IV: Lithium, Total (mg/L)																						
MW-FAA-5	29/29	0%	-	0.28	0.001475	0.03841	0.2888	0.04	mg/L	29	0	Yes	No	Increase	Normal	0.28	0.173				0.173	
MW-FAA-3	25/29	14%	0.01-0.03	0.025	0.00001928	0.004391	0.2698	0.04	mg/L	0	0	Yes	No	Increase	Normal	0.025		No				No
MW-FAA-4	26/29	10%	0.01-0.03	0.041	0.00003747	0.006122	0.3136	0.04	mg/L	1	0	Yes	No	Increase	Normal	0.041		No				No
MW-FAA-6	18/29	38%	0.01-0.03	0.016	0.00001744	0.004176	0.3291	0.04	mg/L	0	0	Yes	No	Stable	Non-parametric	<0.010		No				No
CCR Appendix-IV: Mercury, Total (mg/L)																						
MW-FAA-5	0/25	100%	8.3E-05-0.0002		5.476E-10	0.0000234	0.1198	0.002	mg/L	0	0	NA	NA	NA	NA	<0.00020	0.0002				0.002	
MW-FAA-3	0/21	100%	2.4E-05-0.0002		1.475E-09	0.00003841	0.2004	0.002	mg/L	0	0	NA	NA	NA	NA	<0.00020		No				No
MW-FAA-4	7/21	67%	0.0002-0.0002	0.0015	1.448E-07	0.0003805	0.971	0.002	mg/L	0	0	Yes	No	NT	Non-parametric	0.00083		Yes				No
MW-FAA-6	0/21	100%	0.0002-0.0002		5.294E-24	2.301E-12	1.15E-08	0.002	mg/L	0	0	NA	NA	NA	NA	<0.00020		No				No
CCR Appendix-IV: Molybdenum, Total (mg/L)																						
MW-FAA-5	29/29	0%	-	0.067	0.0001726	0.01314	0.4624	0.1	mg/L	0	0	Yes	No	Decrease	Non-parametric	0.023	0.067				0.100	
MW-FAA-3	29/29	0%	-	0.014	0.00008392	0.002897	0.3477	0.1	mg/L	0	0	No	No	Decrease	Normal	0.0039		No				No
MW-FAA-4	29/29	0%	-	0.011	0.00006302	0.00251	0.4218	0.1	mg/L	0	0	No	No	Increase	Normal	0.0071		No				No
MW-FAA-6	29/29	0%	-	0.59	0.01715	0.131	0.3383	0.1	mg/L	29	0	No	No	Decrease	Normal	0.39		Yes	0.818	N	0.818	No

Notes:
¹ Based on background data collected from 08/19/2016 through 03/13/2024, unless otherwise noted.
² Based on background data collected from 08/19/2016 through 09/04/2024.
* Values obtained from U.S. Environmental Protection Agency Federal CCR Rule Title 40 Code of Federal Regulations (CFR) § 257.95(h)(2)
CCR = coal combustion residuals
GWPS = Groundwater Protection Standard
MCL = maximum contaminant level
mg/L = milligrams per Liter
NA = not analyzed
pCi/L = picoCuries per Liter
SSI = statistically significant increase
SSL = statistically significant level
UTL = upper tolerance limits

ATTACHMENT 2
Laboratory Analytical Reports

ATTACHMENT 2-1
March 2025 Semiannual Sampling Event
Laboratory Analytical Report



April 04, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: MW-FAA-5 RADCHEM
Pace Project No.: 60470650

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 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 - Greensburg

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MW-FAA-5 RADCHEM
Pace Project No.: 60470650

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60470650001	FAA-5-030625	Water	03/06/25 10:50	03/07/25 13:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60470650001	FAA-5-030625	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy_Haley & Aldrich

Date: April 04, 2025

General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy_Haley & Aldrich

Date: April 04, 2025

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy_Haley & Aldrich

Date: April 04, 2025

General Information:

1 sample was analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Sample: **FAA-5-030625** Lab ID: **60470650001** Collected: 03/06/25 10:50 Received: 03/07/25 13:51 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.342 ± 0.551 (0.951) C:NA T:101%	pCi/L	03/27/25 19:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.10 ± 0.547 (0.950) C:76% T:88%	pCi/L	03/30/25 14:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44 ± 0.776 (0.951)	pCi/L	04/01/25 16:24	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

QC Batch: 732718

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60470650001

METHOD BLANK: 3567099

Matrix: Water

Associated Lab Samples: 60470650001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.112 ± 0.171 (0.274) C:NA T:98%	pCi/L	03/27/25 19:04	

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 - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

QC Batch: 732719

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60470650001

METHOD BLANK: 3567100

Matrix: Water

Associated Lab Samples: 60470650001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.562 ± 0.378 (0.715) C:72% T:92%	pCi/L	03/30/25 14:52	

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.

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QUALIFIERS

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60470650

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60470650001	FAA-5-030625	EPA 903.1	732718		
60470650001	FAA-5-030625	EPA 904.0	732719		
60470650001	FAA-5-030625	Total Radium Calculation	736677		

REPORT OF LABORATORY ANALYSIS

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WO#: 60470650



60470650



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

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Energy Central

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.5 Corr. Factor 10.1 Corrected 4.6

Date and initials of person examining contents: AF 3/7

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 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: _____

Client: Energy Profile/EZ # EZ 3229986
 Site: MW-FAA-5 Radchem 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																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I		Wipe/Swab	
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T		120mL Coliform Na Thiosulfate	
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC		Ziploc Bag	
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF		Air Filter	
DG9S	40mL H2SO4 amber vial	AG0U	100mL unres amber glass	BP1Z	1L NaOH, Zn Acetate	C		Air Cassettes	
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R		Terracore Kit	
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U		Summa Can	
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT		Water	
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL		Solid	
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL		Non-aqueous Liquid	
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL		OIL	
		AG5U	100mL unpres amber glass	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:

60470690

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt- Greensburg
 Effective Date: 01/04/2024

WO# : 30762666
 PM: CMC Due Date: 04/02/25
 CLIENT: PACE_60_LEKS

Client Name: Pace-KS

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking Number: 4033 6457 1061

Initial / Date
 Examined By: PS 3/12/25
 Labeled By: PS 3/12/25
 Temped By: _____

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No
 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 #
				1001041	_____
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:					
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					
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	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 <u>PS</u>	Date: <u>3/12/25</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.
 Qualtrax ID: 55680



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: CLM
Date: 3/14/2025
Batch ID: 84042
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	3567099	
MB concentration:	0.112	
M/B 2 Sigma CSU:	0.171	
MB MDC:	0.274	
MB Numerical Performance Indicator:	1.28	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	N/A	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84042	LCS84042
Count Date:	3/27/2025	3/27/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.833	31.833
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.652	0.652
Target Conc. (pCi/L, g, F):	4.885	4.883
Uncertainty (Calculated):	0.230	0.229
Result (pCi/L, g, F):	4.866	4.090
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.081	1.008
Numerical Performance Indicator:	-0.03	-1.51
Percent Recovery:	99.62%	83.76%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84042	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS84042	
Sample Result (pCi/L, g, F):	4.866	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.081	
Sample Duplicate Result (pCi/L, g, F):	4.090	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.008	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.030	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.30%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

CLM 3/17/25



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JJS1
Date: 3/18/2025
Worklist: 84043
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	3567100	
MB concentration:	0.562	
M/B 2 Sigma CSU:	0.378	
MB MDC:	0.715	
MB Numerical Performance Indicator:	2.91	
MB Status vs Numerical Indicator:	Warning	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCS (Y or N)?	Y
	LCS84043	LCS84043
Count Date:	3/30/2025	3/30/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.073	33.073
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.822
Target Conc. (pCi/L, g, F):	4.034	4.025
Uncertainty (Calculated):	0.198	0.197
Result (pCi/L, g, F):	3.912	3.510
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.954	0.876
Numerical Performance Indicator:	-0.25	-1.12
Percent Recovery:	96.97%	87.21%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment	LCS	LCSD	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS84043		
Duplicate Sample I.D.:	LCSD84043		
Sample Result (pCi/L, g, F):	3.912		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.954		
Sample Duplicate Result (pCi/L, g, F):	3.510		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.876		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	0.607		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.59%		
Duplicate Status vs Numerical Indicator:	Pass		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	36%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
4/1/25
ZPC
4-1-25



March 26, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: MW-FAA-5
Pace Project No.: 60470652

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 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 - Indianapolis
- Pace Analytical Services - Kansas City

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MW-FAA-5

Pace Project No.: 60470652

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MW-FAA-5
Pace Project No.: 60470652

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60470652001	FAA-5-030625	Water	03/06/25 10:50	03/07/25 13:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MW-FAA-5

Pace Project No.: 60470652

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60470652001	FAA-5-030625	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-I = Pace Analytical Services - Indianapolis

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 927269

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470652001,60470656002

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

- MS (Lab ID: 3672574)
 - Calcium
- MS (Lab ID: 3672576)
 - Calcium
- MSD (Lab ID: 3672575)
 - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 927460

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470681001

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

- MS (Lab ID: 3673266)
 - Lithium
- MSD (Lab ID: 3673267)
 - Lithium

R1: RPD value was outside control limits.

- MSD (Lab ID: 3673267)
 - Lithium

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 927255

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470649001

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

- MS (Lab ID: 3672540)
 - Chromium
- MSD (Lab ID: 3672541)
 - Chromium

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928103

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470410001,60470576001

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

- MS (Lab ID: 3676047)
 - Mercury
- MS (Lab ID: 3676049)
 - Mercury
- MSD (Lab ID: 3676048)
 - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FAA-5-030625 (Lab ID: 60470652001)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- FAA-5-030625 (Lab ID: 60470652001)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60470652

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy_Haley & Aldrich

Date: March 26, 2025

General Information:

1 sample was analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928705

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470689002,60470697001

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

- MS (Lab ID: 3678484)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 3678485)
 - Chloride
 - Fluoride
 - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 928705

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3678484)
 - Chloride
- MSD (Lab ID: 3678485)
 - Chloride

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: MW-FAA-5

Pace Project No.: 60470652

Sample: FAA-5-030625	Lab ID: 60470652001	Collected: 03/06/25 10:50	Received: 03/07/25 13:51	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	1.6	mg/L	0.10	1	03/11/25 07:50	03/20/25 14:28	7440-42-8	
Calcium, Total Recoverable	506	mg/L	0.20	1	03/11/25 07:50	03/20/25 14:28	7440-70-2	M1,P6
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.28	mg/L	0.020	1	03/11/25 14:06	03/21/25 13:43	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7440-36-0	
Arsenic, Total Recoverable	0.0023	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7440-38-2	
Barium, Total Recoverable	0.0031	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	03/10/25 10:29	03/12/25 11:44	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	03/10/25 10:29	03/12/25 11:44	7440-43-9	
Chromium, Total Recoverable	0.0047	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7440-47-3	
Cobalt, Total Recoverable	0.0024	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7439-92-1	
Molybdenum, Total Recoverable	0.023	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	03/10/25 10:29	03/12/25 11:44	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	03/17/25 14:19	03/20/25 12:09	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	3300	mg/L	40.0	1		03/21/25 10:13		H3
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		03/21/25 15:56		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	83.2	mg/L	20.0	20		03/21/25 10:12	16887-00-6	
Fluoride	0.50	mg/L	0.20	1		03/21/25 09:59	16984-48-8	
Sulfate	2110	mg/L	200	200		03/22/25 19:03	14808-79-8	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 928103

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470652001

METHOD BLANK: 3676045

Matrix: Water

Associated Lab Samples: 60470652001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	03/20/25 11:18	

LABORATORY CONTROL SAMPLE: 3676046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676047 3676048

Parameter	Units	60470410001		3676047		3676048		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Mercury	ug/L	ND	5	5	3.2	3.2	63	64	70-130	1	20 M1

MATRIX SPIKE SAMPLE: 3676049

Parameter	Units	60470576001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	2.1	41	70-130	M1

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 927269

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: 60470652001

METHOD BLANK: 3672572

Matrix: Water

Associated Lab Samples: 60470652001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/20/25 14:25	
Calcium	mg/L	<0.20	0.20	03/20/25 14:25	

LABORATORY CONTROL SAMPLE: 3672573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	85-115	
Calcium	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3672574 3672575

Parameter	Units	60470652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.6	1	1	2.8	2.7	121	104	70-130	6	20	
Calcium	mg/L	506	10	10	597	559	911	535	70-130	7	20 M1	

MATRIX SPIKE SAMPLE: 3672576

Parameter	Units	60470656002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.4	1	3.3	86	70-130	
Calcium	mg/L	567	10	548	-193	70-130 M1	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 927255

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470652001

METHOD BLANK: 3672538

Matrix: Water

Associated Lab Samples: 60470652001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	03/12/25 10:49	
Arsenic	mg/L	<0.0010	0.0010	03/12/25 10:49	
Barium	mg/L	<0.0010	0.0010	03/12/25 10:49	
Beryllium	mg/L	<0.00050	0.00050	03/12/25 10:49	
Cadmium	mg/L	<0.00050	0.00050	03/12/25 10:49	
Chromium	mg/L	<0.0010	0.0010	03/12/25 10:49	
Cobalt	mg/L	<0.0010	0.0010	03/12/25 10:49	
Lead	mg/L	<0.0010	0.0010	03/12/25 10:49	
Molybdenum	mg/L	<0.0010	0.0010	03/12/25 10:49	
Selenium	mg/L	<0.0010	0.0010	03/12/25 10:49	
Thallium	mg/L	<0.0010	0.0010	03/12/25 10:49	

LABORATORY CONTROL SAMPLE: 3672539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.037	93	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Barium	mg/L	0.04	0.038	94	85-115	
Beryllium	mg/L	0.04	0.039	98	85-115	
Cadmium	mg/L	0.04	0.039	97	85-115	
Chromium	mg/L	0.04	0.040	100	85-115	
Cobalt	mg/L	0.04	0.039	98	85-115	
Lead	mg/L	0.04	0.038	96	85-115	
Molybdenum	mg/L	0.04	0.038	95	85-115	
Selenium	mg/L	0.04	0.040	99	85-115	
Thallium	mg/L	0.04	0.038	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3672540 3672541

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		60470649001 Result	Spike Conc.	Spike Conc.	Result							Result
Antimony	mg/L	<0.0024	0.04	0.04	0.035	0.036	87	91	70-130	4	20	
Arsenic	mg/L	0.0016J	0.04	0.04	0.036	0.036	86	87	70-130	2	20	
Barium	mg/L	0.066	0.04	0.04	0.10	0.11	91	101	70-130	4	20	
Beryllium	mg/L	<0.0010	0.04	0.04	0.038	0.040	93	98	70-130	5	20	
Cadmium	mg/L	<0.0010	0.04	0.04	0.033	0.034	83	85	70-130	2	20	
Chromium	mg/L	<0.0060	0.04	0.04	0.025	0.025	61	62	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3672540 3672541													
Parameter	Units	60470649001		MS	MSD	3672541		% Rec	% Rec	% Rec	Max		
		Result	Conc.	Spike	Conc.	MS	MSD					MS	MSD
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Cobalt	mg/L	<0.0019	0.04	0.04	0.04	0.039	0.040	97	99	70-130	3	20	
Lead	mg/L	<0.0037	0.04	0.04	0.04	0.031	0.032	76	77	70-130	2	20	
Molybdenum	mg/L	<0.0021	0.04	0.04	0.04	0.044	0.044	107	109	70-130	2	20	
Selenium	mg/L	<0.0018	0.04	0.04	0.04	0.031	0.031	78	79	70-130	0	20	
Thallium	mg/L	<0.0027	0.04	0.04	0.04	0.031	0.032	77	79	70-130	2	20	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 927460

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470652001

METHOD BLANK: 3673264

Matrix: Water

Associated Lab Samples: 60470652001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/21/25 13:34	

LABORATORY CONTROL SAMPLE: 3673265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673266 3673267

Parameter	Units	60470681001		3673267		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Lithium	mg/L	1970 ug/L	1	1	7.4	1.9	545	-7	75-125	118	20	M1,R1

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 835428

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 60470652001

METHOD BLANK: 3822608

Matrix: Water

Associated Lab Samples: 60470652001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	03/21/25 10:07	

LABORATORY CONTROL SAMPLE: 3822609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 3822610

Parameter	Units	60470626010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	966	946	2	10	H3

SAMPLE DUPLICATE: 3822611

Parameter	Units	60470626007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	589	596	1	10	H3

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 928768

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470652001

SAMPLE DUPLICATE: 3678719

Parameter	Units	60470569002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.3	0	5	H6

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60470652

QC Batch: 928705

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: 60470652001

METHOD BLANK: 3678482

Matrix: Water

Associated Lab Samples: 60470652001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/25 03:15	
Fluoride	mg/L	<0.20	0.20	03/21/25 03:15	
Sulfate	mg/L	<1.0	1.0	03/21/25 03:15	

LABORATORY CONTROL SAMPLE: 3678483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678484 3678485

Parameter	Units	60470689002		60470689001		60470689002		60470689001		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Chloride	mg/L	1020	100	100	1160	1160	143	145	80-120	0	15	E,M1
Fluoride	mg/L	26.2	50	50	93.0	98.3	133	144	80-120	6	15	M1
Sulfate	mg/L	142	100	100	306	312	164	171	80-120	2	15	M1

MATRIX SPIKE SAMPLE: 3678486

Parameter	Units	60470697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	62.8	100	155	92	80-120	
Fluoride	mg/L	78.7	50	126	95	80-120	
Sulfate	mg/L	ND	100	104	88	80-120	

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: MW-FAA-5

Pace Project No.: 60470652

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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: MW-FAA-5

Pace Project No.: 60470652

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60470652001	FAA-5-030625	EPA 200.7	927269	EPA 200.7	927381
60470652001	FAA-5-030625	EPA 3010	927460	EPA 6010	927487
60470652001	FAA-5-030625	EPA 200.8	927255	EPA 200.8	927303
60470652001	FAA-5-030625	EPA 245.1	928103	EPA 245.1	928223
60470652001	FAA-5-030625	SM 2540C	835428		
60470652001	FAA-5-030625	SM 4500-H+B	928768		
60470652001	FAA-5-030625	EPA 300.0	928705		

REPORT OF LABORATORY ANALYSIS

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WO# : 60470652



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

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Energy Control

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.5 Corr. Factor 10.1 Corrected 4.6

Date and initials of person examining contents: AF 3/7

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)	<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: _____

Client: _____

Energy

Profile/EZ # _____

EZ 3229979

Site: _____

MW-FAA-5

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	<i>WT</i>																			<i>2</i>			<i>1</i>								
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic		Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate		
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	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 plstic		

Work Order Number:

60470652



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: **CW** **3/20** **1123**

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 **A B C D E F G H I**

2. **Cooler Temperature(s):** **0.7/0.6** [] [] []
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:** **Fed Ex** UPS Client Pace Now/Jett Other
 Circle One

4. **Custody Seal on Cooler/Box Present:** Yes No
 (If yes) **Seals Intact:** Yes No (leave blank if no seals were present)

5. **Packing Material:** Bubble Wrap Bubble Bags
 None Other **Ziplock**

6. **Ice Type:** Wet Blue None

7. **Was the PM notified of out of temp cooler?** Yes No
 Cooler temp should be above freezing to 6°C
 If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A	
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			X	
Short Hold Time Analysis (48 hours or less)? Analysis:		X					
Time 5035A TC placed in Freezer or Short Holds To Lab			Time: 1140	Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less): 1 DAY	X		Residual Chlorine Check (Total/Amenable/Free Cyanide)			X	
Custody Signatures Present?	X		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent	
Containers Intact?:	X		Trip Blank Present?		X		
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:			X	
Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if applicable:				

COMMENTS:



May 01, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR-Revised Report
Pace Project No.: 60470657

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 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 - Indianapolis
- Pace Analytical Services - Kansas City

REVISED - sample FAA-6 was reanalyzed for arsenic per client request.

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60470657001	FAA-3-030625	Water	03/06/25 14:20	03/07/25 13:51
60470657002	FAA-4-030625	Water	03/06/25 09:40	03/07/25 13:51
60470657003	FAA-6-030625	Water	03/06/25 13:20	03/07/25 13:51
60470657004	JEC-FAA-DUP-030625	Water	03/06/25 13:20	03/07/25 13:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60470657001	FAA-3-030625	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	4	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60470657002	FAA-4-030625	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	4	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60470657003	FAA-6-030625	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	4	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K
60470657004	JEC-FAA-DUP-030625	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	4	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	SL	1	PASI-I
		SM 4500-H+B	MLD	1	PASI-K
		EPA 300.0	AAA	3	PASI-K

PASI-I = Pace Analytical Services - Indianapolis

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Date: May 01, 2025

TDS performed outside method recommended hold time due to laboratory scheduling error.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 927269

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470652001,60470656002

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

- MS (Lab ID: 3672574)
 - Calcium
- MS (Lab ID: 3672576)
 - Calcium
- MSD (Lab ID: 3672575)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 927460

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470681001

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

- MS (Lab ID: 3673266)
 - Lithium
- MSD (Lab ID: 3673267)
 - Lithium

R1: RPD value was outside control limits.

- MSD (Lab ID: 3673267)
 - Lithium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928103

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470410001,60470576001

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

- MS (Lab ID: 3676047)
 - Mercury
- MS (Lab ID: 3676049)
 - Mercury
- MSD (Lab ID: 3676048)
 - Mercury

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FAA-3-030625 (Lab ID: 60470657001)
- FAA-4-030625 (Lab ID: 60470657002)
- FAA-6-030625 (Lab ID: 60470657003)
- JEC-FAA-DUP-030625 (Lab ID: 60470657004)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- FAA-3-030625 (Lab ID: 60470657001)
- FAA-4-030625 (Lab ID: 60470657002)
- FAA-6-030625 (Lab ID: 60470657003)
- JEC-FAA-DUP-030625 (Lab ID: 60470657004)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy_Haley & Aldrich

Date: May 01, 2025

General Information:

4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 928705

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60470689002,60470697001

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

- MS (Lab ID: 3678484)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 3678485)
 - Chloride
 - Fluoride
 - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 928705

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3678484)
 - Chloride
- MSD (Lab ID: 3678485)
 - Chloride

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Sample: FAA-3-030625	Lab ID: 60470657001	Collected: 03/06/25 14:20	Received: 03/07/25 13:51	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	0.45	mg/L	0.10	1	03/11/25 07:50	03/21/25 14:53	7440-42-8	
Calcium, Total Recoverable	275	mg/L	0.20	1	03/11/25 07:50	03/21/25 14:53	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.025	mg/L	0.020	1	03/11/25 14:06	03/21/25 13:45	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:01	7440-38-2	
Barium, Total Recoverable	0.026	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:01	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:01	7440-48-4	
Molybdenum, Total Recoverable	0.0039	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:01	7439-98-7	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City						
Mercury	<0.20	ug/L	0.20	1	03/17/25 14:19	03/20/25 12:11	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1590	mg/L	40.0	1		03/21/25 10:12		H3
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/21/25 16:01		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	167	mg/L	20.0	20		03/21/25 22:15	16887-00-6	
Fluoride	0.35	mg/L	0.20	1		03/21/25 21:33	16984-48-8	
Sulfate	905	mg/L	100	100		03/21/25 22:28	14808-79-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Sample: FAA-4-030625	Lab ID: 60470657002	Collected: 03/06/25 09:40	Received: 03/07/25 13:51	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	0.55	mg/L	0.10	1	03/11/25 07:50	03/21/25 14:54	7440-42-8	
Calcium, Total Recoverable	177	mg/L	0.20	1	03/11/25 07:50	03/21/25 14:54	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.041	mg/L	0.020	1	03/11/25 14:06	03/21/25 13:47	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:18	7440-38-2	
Barium, Total Recoverable	0.046	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:18	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:18	7440-48-4	
Molybdenum, Total Recoverable	0.0071	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:18	7439-98-7	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City						
Mercury	0.83	ug/L	0.20	1	03/17/25 14:19	03/20/25 12:13	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1190	mg/L	20.0	1		03/21/25 10:12		H3
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/21/25 15:55		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	119	mg/L	20.0	20		03/21/25 22:56	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/21/25 22:42	16984-48-8	
Sulfate	480	mg/L	100	100		03/21/25 23:10	14808-79-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Sample: FAA-6-030625	Lab ID: 60470657003	Collected: 03/06/25 13:20	Received: 03/07/25 13:51	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	3.3	mg/L	0.10	1	03/11/25 07:50	03/21/25 14:56	7440-42-8	
Calcium, Total Recoverable	71.6	mg/L	0.20	1	03/11/25 07:50	03/21/25 14:56	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	03/11/25 14:06	03/21/25 13:49	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.012	mg/L	0.0010	1	04/29/25 14:06	04/30/25 07:45	7440-38-2	
Barium, Total Recoverable	0.017	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:22	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:22	7440-48-4	
Molybdenum, Total Recoverable	0.39	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:22	7439-98-7	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City						
Mercury	<0.20	ug/L	0.20	1	03/17/25 14:19	03/20/25 12:16	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1990	mg/L	40.0	1		03/21/25 10:12		H3
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	8.5	Std. Units	0.10	1		03/21/25 15:56		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	79.7	mg/L	20.0	20		03/21/25 23:38	16887-00-6	
Fluoride	0.34	mg/L	0.20	1		03/21/25 23:24	16984-48-8	
Sulfate	1340	mg/L	100	100		03/21/25 23:52	14808-79-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Sample: JEC-FAA-DUP-030625	Lab ID: 60470657004	Collected: 03/06/25 13:20	Received: 03/07/25 13:51	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	3.4	mg/L	0.10	1	03/11/25 07:50	03/21/25 14:58	7440-42-8	
Calcium, Total Recoverable	75.0	mg/L	0.20	1	03/11/25 07:50	03/21/25 14:58	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	03/11/25 14:06	03/21/25 13:56	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.011	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:27	7440-38-2	
Barium, Total Recoverable	0.017	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:27	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:27	7440-48-4	
Molybdenum, Total Recoverable	0.39	mg/L	0.0010	1	03/11/25 07:50	03/12/25 12:27	7439-98-7	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	03/17/25 14:19	03/20/25 12:18	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2040	mg/L	40.0	1		03/21/25 10:12		H3
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		03/25/25 15:07		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	77.4	mg/L	20.0	20		03/22/25 00:19	16887-00-6	
Fluoride	0.34	mg/L	0.20	1		03/22/25 00:06	16984-48-8	
Sulfate	1340	mg/L	100	100		03/22/25 01:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch:	928103	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

METHOD BLANK: 3676045 Matrix: Water
 Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	03/20/25 11:18	

LABORATORY CONTROL SAMPLE: 3676046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3676047 3676048

Parameter	Units	60470410001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.2	3.2	63	64	70-130	1	20	M1

MATRIX SPIKE SAMPLE: 3676049

Parameter	Units	60470576001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	2.1	41	70-130	M1

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch: 927269 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: 60470657001, 60470657002, 60470657003, 60470657004

METHOD BLANK: 3672572 Matrix: Water
 Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	03/20/25 14:25	
Calcium	mg/L	<0.20	0.20	03/20/25 14:25	

LABORATORY CONTROL SAMPLE: 3672573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	85-115	
Calcium	mg/L	10	10.5	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3672574 3672575

Parameter	Units	60470652001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.6	1	1	2.8	2.7	121	104	70-130	6	20	
Calcium	mg/L	506	10	10	597	559	911	535	70-130	7	20 M1	

MATRIX SPIKE SAMPLE: 3672576

Parameter	Units	60470656002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.4	1	3.3	86	70-130	
Calcium	mg/L	520		548			M1

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch:	927270	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

METHOD BLANK: 3672577 Matrix: Water

Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/12/25 11:55	
Barium	mg/L	<0.0010	0.0010	03/12/25 11:55	
Cobalt	mg/L	<0.0010	0.0010	03/12/25 11:55	
Molybdenum	mg/L	<0.0010	0.0010	03/12/25 11:55	

LABORATORY CONTROL SAMPLE: 3672578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.036	89	85-115	
Barium	mg/L	0.04	0.037	92	85-115	
Cobalt	mg/L	0.04	0.036	90	85-115	
Molybdenum	mg/L	0.04	0.037	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3672579 3672580

Parameter	Units	60470657001		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/L	<0.0010	0.04	0.04	0.038	0.038	94	93	70-130	1	20	
Barium	mg/L	0.026	0.04	0.04	0.062	0.063	91	92	70-130	0	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.035	0.035	87	86	70-130	0	20	
Molybdenum	mg/L	0.0039	0.04	0.04	0.045	0.045	103	103	70-130	0	20	

MATRIX SPIKE SAMPLE: 3672581

Parameter	Units	60470678002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.0010	0.04	0.038	93	70-130	
Barium	mg/L	0.071	0.04	0.11	93	70-130	
Cobalt	mg/L	<0.0010	0.04	0.036	88	70-130	
Molybdenum	mg/L	0.0019	0.04	0.043	104	70-130	

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch:	933388	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60470657003

METHOD BLANK: 3697961 Matrix: Water

Associated Lab Samples: 60470657003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	04/30/25 07:41	

LABORATORY CONTROL SAMPLE: 3697962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3697963 3697964

Parameter	Units	60470657003		3697964		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/L	0.012	0.04	0.051	0.04	97	96	70-130	1	20	

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch:	927460	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60470657001, 60470657002, 60470657003, 60470657004		

METHOD BLANK: 3673264 Matrix: Water
 Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/21/25 13:34	

LABORATORY CONTROL SAMPLE: 3673265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673266 3673267

Parameter	Units	60470681001		3673267		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Lithium	mg/L	1970 ug/L	1	1	7.4	1.9	545	-7	75-125	118	20	M1,R1

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch:	835428	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

METHOD BLANK: 3822608 Matrix: Water
 Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	03/21/25 10:07	

LABORATORY CONTROL SAMPLE: 3822609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 3822610

Parameter	Units	60470626010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	966	946	2	10	H3

SAMPLE DUPLICATE: 3822611

Parameter	Units	60470626007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	589	596	1	10	H3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch: 928768

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470657002, 60470657003

SAMPLE DUPLICATE: 3678719

Parameter	Units	60470569002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.3	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch: 928778

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470657001

SAMPLE DUPLICATE: 3678760

Parameter	Units	60470605001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch: 928824

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60470657004

SAMPLE DUPLICATE: 3679069

Parameter	Units	60470657004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

QC Batch: 928705 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: 60470657001, 60470657002, 60470657003, 60470657004

METHOD BLANK: 3678482 Matrix: Water
 Associated Lab Samples: 60470657001, 60470657002, 60470657003, 60470657004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/25 03:15	
Fluoride	mg/L	<0.20	0.20	03/21/25 03:15	
Sulfate	mg/L	<1.0	1.0	03/21/25 03:15	

LABORATORY CONTROL SAMPLE: 3678483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678484 3678485

Parameter	Units	60470689002		60470697001		60470697001		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	1020	1020	100	100	1160	1160	143	145	80-120	0	15 E,M1
Fluoride	mg/L	26.2	26.2	50	50	93.0	98.3	133	144	80-120	6	15 M1
Sulfate	mg/L	142	142	100	100	306	312	164	171	80-120	2	15 M1

MATRIX SPIKE SAMPLE: 3678486

Parameter	Units	60470697001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	62.8	100	155	92	80-120	
Fluoride	mg/L	78.7	50	126	95	80-120	
Sulfate	mg/L	ND	100	104	88	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60470657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60470657001	FAA-3-030625	EPA 200.7	927269	EPA 200.7	927381
60470657002	FAA-4-030625	EPA 200.7	927269	EPA 200.7	927381
60470657003	FAA-6-030625	EPA 200.7	927269	EPA 200.7	927381
60470657004	JEC-FAA-DUP-030625	EPA 200.7	927269	EPA 200.7	927381
60470657001	FAA-3-030625	EPA 3010	927460	EPA 6010	927487
60470657002	FAA-4-030625	EPA 3010	927460	EPA 6010	927487
60470657003	FAA-6-030625	EPA 3010	927460	EPA 6010	927487
60470657004	JEC-FAA-DUP-030625	EPA 3010	927460	EPA 6010	927487
60470657001	FAA-3-030625	EPA 200.8	927270	EPA 200.8	927380
60470657002	FAA-4-030625	EPA 200.8	927270	EPA 200.8	927380
60470657003	FAA-6-030625	EPA 200.8	927270	EPA 200.8	927380
60470657003	FAA-6-030625	EPA 200.8	933388	EPA 200.8	933400
60470657004	JEC-FAA-DUP-030625	EPA 200.8	927270	EPA 200.8	927380
60470657001	FAA-3-030625	EPA 245.1	928103	EPA 245.1	928223
60470657002	FAA-4-030625	EPA 245.1	928103	EPA 245.1	928223
60470657003	FAA-6-030625	EPA 245.1	928103	EPA 245.1	928223
60470657004	JEC-FAA-DUP-030625	EPA 245.1	928103	EPA 245.1	928223
60470657001	FAA-3-030625	SM 2540C	835428		
60470657002	FAA-4-030625	SM 2540C	835428		
60470657003	FAA-6-030625	SM 2540C	835428		
60470657004	JEC-FAA-DUP-030625	SM 2540C	835428		
60470657001	FAA-3-030625	SM 4500-H+B	928778		
60470657002	FAA-4-030625	SM 4500-H+B	928768		
60470657003	FAA-6-030625	SM 4500-H+B	928768		
60470657004	JEC-FAA-DUP-030625	SM 4500-H+B	928824		
60470657001	FAA-3-030625	EPA 300.0	928705		
60470657002	FAA-4-030625	EPA 300.0	928705		
60470657003	FAA-6-030625	EPA 300.0	928705		
60470657004	JEC-FAA-DUP-030625	EPA 300.0	928705		

REPORT OF LABORATORY ANALYSIS

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WO#: 60470657



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

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Energy Control

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.5 Corr. Factor +0.1 Corrected 4.6

Date and initials of person examining contents: AF 3/7

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 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.
LOT#: <u>995727</u>		
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: _____

Client: _____

Energy
JEC FALCCR

Profile/EZ # _____

F2 3229926

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	<i>W</i>																			<i>W</i>			<i>---</i>								
2																															
3																															
4																					<i>W</i>			<i>---</i>							
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGDU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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 plstic				

Work Order Number:

60470657



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: **CW** **3/20** **1135**

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 **A** B C D E F G H I

2. **Cooler Temperature(s):** 0.7/0.0 [] [] []
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:** Fed Ex UPS Client Pace Now/Jett Other
 Circle One

4. **Custody Seal on Cooler/Box Present:** Yes No
 (If yes) **Seals Intact:** Yes No (leave blank if no seals were present)

5. **Packing Material:** Bubble Wrap Bubble Bags
 None Other Ziplock

6. **Ice Type:** Wet Blue None

7. **Was the PM notified of out of temp cooler?** Yes No
 Cooler temp should be above freezing to 6°C
 If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		X				X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A
Rush TAT Requested (4 days or less): <u>1 DAY</u>	X		Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Containers Intact?:	X		Trip Blank Present?		X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Custody Seals?:			X
Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if applicable:			

COMMENTS:



April 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: MW-FAA-5 - TDS ONLY
Pace Project No.: 60471952

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 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 - Indianapolis

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MW-FAA-5 - TDS ONLY

Pace Project No.: 60471952

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MW-FAA-5 - TDS ONLY
Pace Project No.: 60471952

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471952001	FAA-5-032725	Water	03/27/25 16:45	03/28/25 15:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MW-FAA-5 - TDS ONLY
Pace Project No.: 60471952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471952001	FAA-5-032725	SM 2540C	MED1	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 - TDS ONLY

Pace Project No.: 60471952

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy_Haley & Aldrich

Date: April 08, 2025

General Information:

1 sample was analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MW-FAA-5 - TDS ONLY

Pace Project No.: 60471952

Sample: FAA-5-032725		Lab ID: 60471952001		Collected: 03/27/25 16:45	Received: 03/28/25 15:15	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	3460	mg/L	40.0	1		04/02/25 08:17		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MW-FAA-5 - TDS ONLY

Pace Project No.: 60471952

QC Batch: 837134

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 60471952001

METHOD BLANK: 3830919

Matrix: Water

Associated Lab Samples: 60471952001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	04/02/25 08:15	

LABORATORY CONTROL SAMPLE: 3830920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3830921

Parameter	Units	60471952001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3460	3400	2	10	

SAMPLE DUPLICATE: 3830922

Parameter	Units	60471954001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1010	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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QUALIFIERS

Project: MW-FAA-5 - TDS ONLY

Pace Project No.: 60471952

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MW-FAA-5 - TDS ONLY

Pace Project No.: 60471952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471952001	FAA-5-032725	SM 2540C	837134		

REPORT OF LABORATORY ANALYSIS

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WO#: 60471952



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



Revision: 2

Effective Date: 01/12/2

Client Name: EVERGY

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 6.6 Corr. Factor _____ Corrected 6.7

Date and initials of person examining contents: MM 3/28/25

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>5 day</u>
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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#:	<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 checked="" type="checkbox"/> No <input 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: _____

Client: Energy Profile/EZ # e2 3242921
 Site: MW-FAA5 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																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic			I	Wipe/Swab
DG9H	40mL HCl amber vial	WGKU	4oz clear soil jar	BP1N	1L HNO3 plastic			SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic			ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic			AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate			C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic			R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic			U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered				
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic			WT	Water
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic			SL	Solid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic			NAL	Non-aqueous Liquid
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate			OL	OIL
				BP4U	125mL unpreserved plastic			WP	Wipe
				BP4N	125mL HNO3 plastic			DW	Drinking Water
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

WO# : 60471952
 PM: AS Due Date: 04/07/25
 CLIENT: Energy_Haley

Work Order Number:



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 4/1/25 1130

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. **Cooler Temperature(s):** 1.3/1.3
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:** Fed Ex UPS Client Pace Now/Jett Other
 Circle One

4. **Custody Seal on Cooler/Box Present:** Yes No
 (If yes) Seals Intact: Yes No (leave blank if no seals were present)

5. **Packing Material:** Bubble Wrap Bubble Bags
 None Other _____

6. **Ice Type:** Wet Blue None

7. **Was the PM notified of out of temp cooler:** Yes No
 Cooler temp should be above freezing to 6°C
 If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?		<input checked="" type="checkbox"/>	Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:		<input checked="" type="checkbox"/>	Trip Blank Present?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>
Extra labels on Terracore Vials? (soils only)			Out Of Temp Instructions if applicable:			

COMMENTS:



April 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR - TDS ONLY
Pace Project No.: 60471956

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 28, 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 - Indianapolis

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268

Illinois Accreditation #: 200074

Indiana Drinking Water Laboratory #: C-49-06

Kansas/TNI Certification #: E-10177

Kentucky UST Agency Interest #: 80226

Kentucky WW Laboratory ID #: 98019

Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050

Oklahoma Laboratory #: 9204

Texas Certification #: T104704355

Washington Dept of Ecology #: C1081

Wisconsin Laboratory #: 999788130

USDA Foreign Soil Permit #: 525-23-13-23119

USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60471956001	FAA-3-032725	Water	03/27/25 15:10	03/28/25 15:15
60471956002	FAA-4-032725	Water	03/27/25 14:35	03/28/25 15:15
60471956003	FAA-6-032725	Water	03/27/25 14:30	03/28/25 15:15
60471956004	JEC-FAA-DUP-032725	Water	03/27/25 14:30	03/28/25 15:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60471956001	FAA-3-032725	SM 2540C	MED1	1	PASI-I
60471956002	FAA-4-032725	SM 2540C	MED1	1	PASI-I
60471956003	FAA-6-032725	SM 2540C	MED1	1	PASI-I
60471956004	JEC-FAA-DUP-032725	SM 2540C	MED1	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy_Haley & Aldrich

Date: April 08, 2025

General Information:

4 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Sample: FAA-3-032725		Lab ID: 60471956001	Collected: 03/27/25 15:10	Received: 03/28/25 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1680	mg/L	40.0	1		04/02/25 08:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Sample: FAA-4-032725	Lab ID: 60471956002	Collected: 03/27/25 14:35	Received: 03/28/25 15:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1190	mg/L	20.0	1		04/02/25 08:19		

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ANALYTICAL RESULTS

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Sample: FAA-6-032725		Lab ID: 60471956003		Collected: 03/27/25 14:30	Received: 03/28/25 15:15	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Indianapolis						
Total Dissolved Solids	1880	mg/L	40.0	1		04/02/25 08:19		

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ANALYTICAL RESULTS

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: JEC-FAA-DUP-032725 Lab ID: 60471956004 Collected: 03/27/25 14:30 Received: 03/28/25 15:15 Matrix: Water								
2540C Total Dissolved Solids	Analytical Method: SM 2540C Pace Analytical Services - Indianapolis							
Total Dissolved Solids	1880	mg/L	40.0	1		04/02/25 08:20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

QC Batch:	837134	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 60471956001, 60471956002, 60471956003, 60471956004

METHOD BLANK: 3830919 Matrix: Water
 Associated Lab Samples: 60471956001, 60471956002, 60471956003, 60471956004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<10.0	10.0	04/02/25 08:15	

LABORATORY CONTROL SAMPLE: 3830920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3830921

Parameter	Units	60471952001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3460	3400	2	10	

SAMPLE DUPLICATE: 3830922

Parameter	Units	60471954001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1060	1010	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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QUALIFIERS

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

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.

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR - TDS ONLY

Pace Project No.: 60471956

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60471956001	FAA-3-032725	SM 2540C	837134		
60471956002	FAA-4-032725	SM 2540C	837134		
60471956003	FAA-6-032725	SM 2540C	837134		
60471956004	JEC-FAA-DUP-032725	SM 2540C	837134		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2

WO#: 60471956



60471956

Client Name: Energy

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 6.9 Corr. Factor _____ Corrected 7.0

Date and initials of person examining contents:
MM 7/28/27

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>5 day</u>
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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input 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#:	<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 checked="" type="checkbox"/> No <input 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: _____

Client: Energy Profile/EZ # ez 3242916
 Site: JEC FAL CCR 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																					///										
3																					///										
4																					///										
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NAOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NAOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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 plstic				

WO# : 60471956
 Work Order Number: **PM: AS** Due Date: **04/07/25**
CLIENT: Evergy_Haley



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 4/1/25 1130

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. **Cooler Temperature(s):** 1.3/1.3
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. **Courier:** Fed Ex UPS Client Pace Now/Jett Other
 Circle One

4. **Custody Seal on Cooler/Box Present:** Yes No
 (If yes) Seals Intact: Yes No (leave blank if no seals were present)

5. **Packing Material:** Bubble Wrap Bubble Bags
 None Other _____

6. **Ice Type:** Wet Blue None

7. **Was the PM notified of out of temp cooler:** Yes No
 Cooler temp should be above freezing to 6°C
 If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			
Custody Signatures Present?	<u>TW 4/1</u>	<input checked="" type="checkbox"/>	Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Containers Intact?:		<input checked="" type="checkbox"/>	Trip Blank Present?		<input checked="" type="checkbox"/>	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Out Of Temp Instructions if applicable:			

COMMENTS:



May 28, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report
Pace Project No.: 60474081

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 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

REVISED to report reanalysis data for Arsenic per client request.

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report

Pace Project No.: 60474081

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Arkansas Certification #: 88-00679

Colorado Division of Oil and Public Safety

Illinois Certification #: 2000302023-6

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report
Pace Project No.: 60474081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60474081001	FAA-6-043025	Water	04/30/25 11:45	04/30/25 14:38

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report

Pace Project No.: 60474081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60474081001	FAA-6-043025	EPA 200.8	JGP	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report

Pace Project No.: 60474081

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: May 28, 2025

General Information:

1 sample was analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report

Pace Project No.: 60474081

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: FAA-6-043025 Lab ID: 60474081001 Collected: 04/30/25 11:45 Received: 04/30/25 14:38 Matrix: Water								
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.011	mg/L	0.0010	1	05/23/25 12:15	05/27/25 13:57	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report

Pace Project No.: 60474081

QC Batch:	936261	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60474081001

METHOD BLANK: 3711455 Matrix: Water

Associated Lab Samples: 60474081001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	05/27/25 13:43	

LABORATORY CONTROL SAMPLE: 3711456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.038	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3711457 3711458

Parameter	Units	60475801001		3711457		3711458		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Arsenic	mg/L	2.8 ug/L	0.04	0.04	0.041	0.040	96	94	70-130	2	20

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: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report

Pace Project No.: 60474081

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR FAA-6 Arsenic Resa-Revised Report
Pace Project No.: 60474081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60474081001	FAA-6-043025	EPA 200.8	936261	EPA 200.8	936310

REPORT OF LABORATORY ANALYSIS

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WO#: 60474081



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



Revision: 2

Effective Date: 01/12/2022

Client Name: Energy Hair & Ald

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.5 Corr. Factor 101 Corrected 1.6

Date and initials of person examining contents: AF 4/1/30

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>16888</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: _____

Client: _____

Energy
JEC FAL CCR FAA-6 Arsenic

Profile/EZ # _____

16500

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																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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: _____

60474081



May 22, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR FAA-6 Arsenic Resa
Pace Project No.: 60475477

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 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,

A handwritten signature in cursive script that reads "Alice Spiller".

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Arkansas Certification #: 88-00679

Colorado Division of Oil and Public Safety

Illinois Certification #: 2000302023-6

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JEC FAL CCR FAA-6 Arsenic Resa
Pace Project No.: 60475477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60475477001	FAL-FAA-6-051625	Water	05/16/25 10:25	05/16/25 16:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60475477001	FAL-FAA-6-051625	EPA 200.8	JGP	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: May 22, 2025

General Information:

1 sample was analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

Sample: FAL-FAA-6-051625		Lab ID: 60475477001	Collected: 05/16/25 10:25	Received: 05/16/25 16:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0083	mg/L	0.0010	1	05/20/25 15:16	05/21/25 19:42	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

QC Batch:	935799	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60475477001

METHOD BLANK: 3709336 Matrix: Water

Associated Lab Samples: 60475477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	05/21/25 19:18	

LABORATORY CONTROL SAMPLE: 3709337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3709338 3709339

Parameter	Units	60475141001		3709338		3709339		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Arsenic	mg/L	1.7 ug/L	0.04	0.04	0.042	0.041	100	98	70-130	3	20

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: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR FAA-6 Arsenic Resa

Pace Project No.: 60475477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60475477001	FAL-FAA-6-051625	EPA 200.8	935799	EPA 200.8	935870

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2022

WO#: 60475477



60475477

Client Name: Energy Haley and Aldrich

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 4.7 Corr. Factor +0.1 Corrected 4.8

Date and initials of person examining contents: 1/12/22 SHB

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>5 day rush</u>
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>90888</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: _____

Client: Evergy Haley and Aldrich

Profile/ID# 3260670

Site: JEC FAL CCR FAA-6 Arsenic Resample

Notes 5 day rush

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																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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 plstic				

Work Order Number

WO# : 60475477

PM: AS Due Date: 05/27/25

CLIENT: Evergy_Haley

ATTACHMENT 2-2
June 2025 Annual Assessment Sampling Event
Laboratory Analytical Report



July 17, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR RADCHEM
Pace Project No.: 60476997

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 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 - Greensburg

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60476997001	FAA-3-061025	Water	06/10/25 10:35	06/10/25 15:57
60476997002	FAA-4-061025	Water	06/10/25 11:20	06/10/25 15:57
60476997003	FAA-5-061025	Water	06/10/25 12:15	06/10/25 15:57
60476997004	FAA-6-061025	Water	06/10/25 09:40	06/10/25 15:57
60476997005	JEC-FAA-DUP-061025	Water	06/10/25 09:40	06/10/25 15:57

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60476997001	FAA-3-061025	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
60476997002	FAA-4-061025	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
60476997003	FAA-5-061025	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
60476997004	FAA-6-061025	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
60476997005	JEC-FAA-DUP-061025	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy_Haley & Aldrich

Date: July 17, 2025

General Information:

5 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy_Haley & Aldrich

Date: July 17, 2025

General Information:

5 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy_Haley & Aldrich

Date: July 17, 2025

General Information:

5 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Sample: **FAA-3-061025** Lab ID: **60476997001** Collected: 06/10/25 10:35 Received: 06/10/25 15:57 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.449 ± 0.545 (0.902) C:NA T:94%	pCi/L	07/10/25 14:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.292 ± 0.301 (0.617) C:80% T:91%	pCi/L	07/07/25 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.741 ± 0.623 (0.902)	pCi/L	07/10/25 15:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Sample: **FAA-4-061025** Lab ID: **60476997002** Collected: 06/10/25 11:20 Received: 06/10/25 15:57 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.214 ± 0.437 (0.778) C:NA T:99%	pCi/L	07/10/25 14:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.869 ± 0.430 (0.742) C:78% T:90%	pCi/L	07/07/25 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.08 ± 0.613 (0.778)	pCi/L	07/10/25 15:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Sample: **FAA-5-061025** Lab ID: **60476997003** Collected: 06/10/25 12:15 Received: 06/10/25 15:57 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.07 ± 0.748 (1.12) C:NA T:91%	pCi/L	07/10/25 14:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.686 ± 0.439 (0.835) C:80% T:93%	pCi/L	07/07/25 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.76 ± 0.867 (1.12)	pCi/L	07/10/25 15:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Sample: **FAA-6-061025** Lab ID: **60476997004** Collected: 06/10/25 09:40 Received: 06/10/25 15:57 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0485 ± 0.475 (0.945) C:NA T:90%	pCi/L	07/10/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.561 ± 0.357 (0.666) C:81% T:93%	pCi/L	07/07/25 15:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.561 ± 0.594 (0.945)	pCi/L	07/10/25 15:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Sample: JEC-FAA-DUP-061025 Lab ID: 60476997005 Collected: 06/10/25 09:40 Received: 06/10/25 15:57 Matrix: Water

PWS: Site ID: Sample Type:

Comments: • The sampler's name and signature were not listed on the COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.221 ± 0.415 (0.887) C:NA T:94%	pCi/L	07/10/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.395 ± 0.351 (0.709) C:81% T:93%	pCi/L	07/07/25 15:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.395 ± 0.544 (0.887)	pCi/L	07/10/25 15:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

QC Batch: 752770

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60476997001, 60476997002, 60476997003, 60476997004, 60476997005

METHOD BLANK: 3667688

Matrix: Water

Associated Lab Samples: 60476997001, 60476997002, 60476997003, 60476997004, 60476997005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.254 (0.520) C:NA T:96%	pCi/L	07/10/25 14:13	

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 - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

QC Batch:	752771	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60476997001, 60476997002, 60476997003, 60476997004, 60476997005

METHOD BLANK: 3667689 Matrix: Water

Associated Lab Samples: 60476997001, 60476997002, 60476997003, 60476997004, 60476997005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.705 ± 0.360 (0.626) C:84% T:97%	pCi/L	07/07/25 15:19	

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.

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QUALIFIERS

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60476997

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60476997001	FAA-3-061025	EPA 903.1	752770		
60476997002	FAA-4-061025	EPA 903.1	752770		
60476997003	FAA-5-061025	EPA 903.1	752770		
60476997004	FAA-6-061025	EPA 903.1	752770		
60476997005	JEC-FAA-DUP-061025	EPA 903.1	752770		
60476997001	FAA-3-061025	EPA 904.0	752771		
60476997002	FAA-4-061025	EPA 904.0	752771		
60476997003	FAA-5-061025	EPA 904.0	752771		
60476997004	FAA-6-061025	EPA 904.0	752771		
60476997005	JEC-FAA-DUP-061025	EPA 904.0	752771		
60476997001	FAA-3-061025	Total Radium Calculation	757314		
60476997002	FAA-4-061025	Total Radium Calculation	757314		
60476997003	FAA-5-061025	Total Radium Calculation	757314		
60476997004	FAA-6-061025	Total Radium Calculation	757314		
60476997005	JEC-FAA-DUP-061025	Total Radium Calculation	757314		

REPORT OF LABORATORY ANALYSIS

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WO#: 60476997



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



Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Evergh

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 25.2 Corr. Factor 10.1 Corrected 25.3

Date and initials of person examining contents: DFW/10

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	Out of temp.
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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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>MP</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>912888</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: _____

Client: Evergy
 Site: JEC FAL CCP Radchem

Profile/EZ # EZ 32166651
 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	WV																					2									
2																						2									
3																						2									
4																						2									
5																						2									
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unres amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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

WO# : 60476997

PM: AS Due Date: 07/10/25

CLIENT: Evergy_Haley

Pace
ANALYTICAL SERVICES

DC#_Title: ENV-FRM-GBUR-0088 v07_Sa
Greensburg

Effective Date: 01/04/2024

WO#: 30786875

PM: CMC Due Date: 07/11/25
CLIENT: PACE_60_LEKS

Client Name: Pace KS

Project #:

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 4453 8932 8386

Initial / Date

Custody Seal on Cooler/Box Present: Yes No

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

Examined By: EPR 6/11/25
Labeled By: EPR 6/11/25
Temped By: EPR 6/11/25

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>10D43241</u>	_____
Chain of Custody Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used: -Pace Containers Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Hex Cr Aqueous samples field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Organic Samples checked for dichlorination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Filtered volume received for dissolved tests:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>EPR</u> Lot# of added Preservative	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
624.1: Headspace in VOA Vials (0mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Radon: Headspace in RAD Vials (0mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>EPR</u>	Date: <u>6/11/25</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.
Qualtrax ID: 55680



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: TMY
Date: 6/25/2025
Batch ID: 85750
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	3867688	
MB concentration:	0.000	
M/B 2 Sigma CSU:	0.254	
MB MDC:	0.520	
MB Numerical Performance Indicator:	0.00	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	N/A	

Laboratory Control Sample Assessment	LCS (Y or N)?	Y
	LCS85750	LCS85750
Count Date:	7/10/2025	7/10/2025
Spike I.D.:	24-046	24-046
Spike Concentration (pCi/mL):	31.829	31.829
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.657	0.653
Target Conc. (pCi/L, g, F):	4.846	4.877
Uncertainty (Calculated):	0.228	0.229
Result (pCi/L, g, F):	4.904	5.662
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.032	1.122
Numerical Performance Indicator:	0.11	1.34
Percent Recovery:	101.19%	116.10%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85750	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS85750	
Sample Result (pCi/L, g, F):	4.904	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.032	
Sample Duplicate Result (pCi/L, g, F):	5.662	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.122	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.975	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.72%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

TY 7-10-25 W 071025



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 7/1/2025
Worklist: 85751
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3667689
MB concentration:	0.705
M/B 2 Sigma CSU:	0.360
MB MDC:	0.626
MB Numerical Performance Indicator:	3.84
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*



Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85751	LCSD85751
Count Date:	7/1/2025	7/1/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.009	32.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.823
Target Conc. (pCi/L, g, F):	3.902	3.891
Uncertainty (Calculated):	0.191	0.191
Result (pCi/L, g, F):	2.597	2.372
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.674	0.634
Numerical Performance Indicator:	-3.65	-4.49
Percent Recovery:	66.56%	60.97%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85751	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD85751	
Sample Result (pCi/L, g, F):	2.597	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.674	
Sample Duplicate Result (pCi/L, g, F):	2.372	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.634	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.476	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.76%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
7/10/25



June 24, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR
Pace Project No.: 60476999

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 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,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR

Pace Project No.: 60476999

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JEC FAL CCR

Pace Project No.: 60476999

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60476999001	FAA-3-061025	Water	06/10/25 10:35	06/10/25 15:57
60476999002	FAA-4-061025	Water	06/10/25 11:20	06/10/25 15:57
60476999003	FAA-5-061025	Water	06/10/25 12:15	06/10/25 15:57
60476999004	FAA-6-061025	Water	06/10/25 09:40	06/10/25 15:57
60476999005	JEC-FAA-DUP-061025	Water	06/10/25 09:40	06/10/25 15:57

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR

Pace Project No.: 60476999

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60476999001	FAA-3-061025	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60476999002	FAA-4-061025	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60476999003	FAA-5-061025	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60476999004	FAA-6-061025	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K
60476999005	JEC-FAA-DUP-061025	EPA 6010	ARMN	1	PASI-K
		EPA 200.8	JGP	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		EPA 300.0	MLD	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60476999

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy_Haley & Aldrich

Date: June 24, 2025

General Information:

5 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60476999

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: June 24, 2025

General Information:

5 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60476999

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy_Haley & Aldrich

Date: June 24, 2025

General Information:

5 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60476999

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy_Haley & Aldrich

Date: June 24, 2025

General Information:

5 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JEC FAL CCR

Pace Project No.: 60476999

Sample: FAA-3-061025	Lab ID: 60476999001	Collected: 06/10/25 10:35	Received: 06/10/25 15:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.013	mg/L	0.010	1	06/11/25 08:33	06/17/25 23:18	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7440-36-0	
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7440-38-2	
Barium, Total Recoverable	0.026	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:15	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:15	7440-43-9	
Chromium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7440-47-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7439-92-1	
Molybdenum, Total Recoverable	0.0037	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:15	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	06/17/25 14:52	06/18/25 10:40	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	<0.20	mg/L	0.20	1		06/24/25 05:01	16984-48-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR

Pace Project No.: 60476999

Sample: FAA-4-061025	Lab ID: 60476999002	Collected: 06/10/25 11:20	Received: 06/10/25 15:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.020	mg/L	0.010	1	06/11/25 08:33	06/17/25 23:20	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7440-36-0	
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7440-38-2	
Barium, Total Recoverable	0.049	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:30	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:30	7440-43-9	
Chromium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7440-47-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7440-48-4	
Lead, Total Recoverable	0.0019	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7439-92-1	
Molybdenum, Total Recoverable	0.0062	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:30	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	0.81	ug/L	0.20	1	06/17/25 14:52	06/18/25 10:43	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	<0.20	mg/L	0.20	1		06/24/25 05:15	16984-48-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR

Pace Project No.: 60476999

Sample: FAA-5-061025	Lab ID: 60476999003	Collected: 06/10/25 12:15	Received: 06/10/25 15:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.16	mg/L	0.010	1	06/11/25 08:33	06/17/25 23:22	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7440-36-0	
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7440-38-2	
Barium, Total Recoverable	0.0015	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:33	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:33	7440-43-9	
Chromium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7440-47-3	
Cobalt, Total Recoverable	0.0021	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7439-92-1	
Molybdenum, Total Recoverable	0.020	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:33	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	06/17/25 14:52	06/18/25 10:50	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	<0.20	mg/L	0.20	1		06/24/25 05:29	16984-48-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR

Pace Project No.: 60476999

Sample: FAA-6-061025	Lab ID: 60476999004	Collected: 06/10/25 09:40	Received: 06/10/25 15:57	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	06/11/25 08:33	06/17/25 23:24	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7440-36-0	
Arsenic, Total Recoverable	0.0088	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7440-38-2	
Barium, Total Recoverable	0.020	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:36	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:36	7440-43-9	
Chromium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7440-47-3	
Cobalt, Total Recoverable	0.0011	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7439-92-1	
Molybdenum, Total Recoverable	0.39	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:36	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	06/17/25 14:52	06/18/25 10:52	7439-97-6	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Fluoride	0.29	mg/L	0.20	1		06/24/25 05:43	16984-48-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR

Pace Project No.: 60476999

Sample: JEC-FAA-DUP-061025 Lab ID: 60476999005 Collected: 06/10/25 09:40 Received: 06/10/25 15:57 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3010
Pace Analytical Services - Kansas City

Lithium, Total Recoverable	<0.010	mg/L	0.010	1	06/11/25 08:33	06/17/25 23:26	7439-93-2	
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200.8 MET ICPMS

Analytical Method: EPA 200.8 Preparation Method: EPA 200.8
Pace Analytical Services - Kansas City

Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7440-36-0	
Arsenic, Total Recoverable	0.0085	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7440-38-2	
Barium, Total Recoverable	0.020	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:39	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	06/16/25 09:13	06/19/25 12:39	7440-43-9	
Chromium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7440-47-3	
Cobalt, Total Recoverable	0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7439-92-1	
Molybdenum, Total Recoverable	0.37	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	06/16/25 09:13	06/19/25 12:39	7440-28-0	

245.1 Mercury

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1
Pace Analytical Services - Kansas City

Mercury	<0.20	ug/L	0.20	1	06/17/25 14:52	06/18/25 10:54	7439-97-6	
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0
Pace Analytical Services - Kansas City

Fluoride	0.29	mg/L	0.20	1		06/24/25 05:57	16984-48-8	
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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60476999

QC Batch: 938863

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

METHOD BLANK: 3722381

Matrix: Water

Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	06/18/25 09:55	

LABORATORY CONTROL SAMPLE: 3722382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3722383 3722384

Parameter	Units	60476983035		60476983042		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Mercury	ug/L	ND	5	5	4.8	4.7	97	95	70-130	2	20		

MATRIX SPIKE SAMPLE: 3722385

Parameter	Units	60476983042 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.9	97	70-130	

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: JEC FAL CCR

Pace Project No.: 60476999

QC Batch: 938504

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

METHOD BLANK: 3720929

Matrix: Water

Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	06/19/25 12:09	
Arsenic	mg/L	<0.0010	0.0010	06/19/25 12:09	
Barium	mg/L	<0.0010	0.0010	06/19/25 12:09	
Beryllium	mg/L	<0.00050	0.00050	06/19/25 12:09	
Cadmium	mg/L	<0.00050	0.00050	06/19/25 12:09	
Chromium	mg/L	<0.0010	0.0010	06/19/25 12:09	
Cobalt	mg/L	<0.0010	0.0010	06/19/25 12:09	
Lead	mg/L	<0.0010	0.0010	06/19/25 12:09	
Molybdenum	mg/L	<0.0010	0.0010	06/19/25 12:09	
Selenium	mg/L	<0.0010	0.0010	06/19/25 12:09	
Thallium	mg/L	<0.0010	0.0010	06/19/25 12:09	

LABORATORY CONTROL SAMPLE: 3720930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	97	85-115	
Arsenic	mg/L	0.04	0.039	98	85-115	
Barium	mg/L	0.04	0.039	98	85-115	
Beryllium	mg/L	0.04	0.040	101	85-115	
Cadmium	mg/L	0.04	0.040	101	85-115	
Chromium	mg/L	0.04	0.040	99	85-115	
Cobalt	mg/L	0.04	0.039	97	85-115	
Lead	mg/L	0.04	0.039	97	85-115	
Molybdenum	mg/L	0.04	0.040	99	85-115	
Selenium	mg/L	0.04	0.041	102	85-115	
Thallium	mg/L	0.04	0.038	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3720931 3720932

Parameter	Units	60476999001		3720932		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	<0.0010	0.04	0.039	0.038	96	96	70-130	1	20	
Arsenic	mg/L	<0.0010	0.04	0.041	0.041	102	100	70-130	2	20	
Barium	mg/L	0.026	0.04	0.066	0.066	101	99	70-130	1	20	
Beryllium	mg/L	<0.00050	0.04	0.038	0.038	95	94	70-130	1	20	
Cadmium	mg/L	<0.00050	0.04	0.038	0.038	94	94	70-130	0	20	
Chromium	mg/L	<0.0010	0.04	0.039	0.038	97	95	70-130	2	20	

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: JEC FAL CCR

Pace Project No.: 60476999

Parameter	Units	3720931		3720932		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60476999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cobalt	mg/L	<0.0010	0.04	0.04	0.039	0.039	96	95	70-130	1	20		
Lead	mg/L	<0.0010	0.04	0.04	0.043	0.042	105	103	70-130	2	20		
Molybdenum	mg/L	0.0037	0.04	0.04	0.046	0.046	107	105	70-130	1	20		
Selenium	mg/L	<0.0010	0.04	0.04	0.039	0.039	96	97	70-130	1	20		
Thallium	mg/L	<0.0010	0.04	0.04	0.041	0.040	102	100	70-130	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60476999

QC Batch:	938172	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

METHOD BLANK: 3719436 Matrix: Water
 Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	06/17/25 22:33	

LABORATORY CONTROL SAMPLE: 3719437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3719438 3719439

Parameter	Units	60476985003		3719439		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lithium	mg/L	28.1 ug/L	1	1	1.1	1.1	104	106	75-125	1	20

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60476999

QC Batch:	939460	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:	60476999001, 60476999002, 60476999003, 60476999004, 60476999005		

METHOD BLANK: 3724783 Matrix: Water
 Associated Lab Samples: 60476999001, 60476999002, 60476999003, 60476999004, 60476999005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	06/24/25 03:24	

LABORATORY CONTROL SAMPLE: 3724784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3724785 3724786

Parameter	Units	3724785		3724786		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60476584008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Fluoride	mg/L	ND	125	125	125	125	100	100	80-120	0	15

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QUALIFIERS

Project: JEC FAL CCR

Pace Project No.: 60476999

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR

Pace Project No.: 60476999

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60476999001	FAA-3-061025	EPA 3010	938172	EPA 6010	938243
60476999002	FAA-4-061025	EPA 3010	938172	EPA 6010	938243
60476999003	FAA-5-061025	EPA 3010	938172	EPA 6010	938243
60476999004	FAA-6-061025	EPA 3010	938172	EPA 6010	938243
60476999005	JEC-FAA-DUP-061025	EPA 3010	938172	EPA 6010	938243
60476999001	FAA-3-061025	EPA 200.8	938504	EPA 200.8	938651
60476999002	FAA-4-061025	EPA 200.8	938504	EPA 200.8	938651
60476999003	FAA-5-061025	EPA 200.8	938504	EPA 200.8	938651
60476999004	FAA-6-061025	EPA 200.8	938504	EPA 200.8	938651
60476999005	JEC-FAA-DUP-061025	EPA 200.8	938504	EPA 200.8	938651
60476999001	FAA-3-061025	EPA 245.1	938863	EPA 245.1	938906
60476999002	FAA-4-061025	EPA 245.1	938863	EPA 245.1	938906
60476999003	FAA-5-061025	EPA 245.1	938863	EPA 245.1	938906
60476999004	FAA-6-061025	EPA 245.1	938863	EPA 245.1	938906
60476999005	JEC-FAA-DUP-061025	EPA 245.1	938863	EPA 245.1	938906
60476999001	FAA-3-061025	EPA 300.0	939460		
60476999002	FAA-4-061025	EPA 300.0	939460		
60476999003	FAA-5-061025	EPA 300.0	939460		
60476999004	FAA-6-061025	EPA 300.0	939460		
60476999005	JEC-FAA-DUP-061025	EPA 300.0	939460		

REPORT OF LABORATORY ANALYSIS

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WO#: 60476999



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



Revision: 2

Effective Date: 01/12/2022

Client Name: Evergy

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: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 13.5 Corr. Factor 10.1 Corrected 13.6

Date and initials of person examining contents: DF 6/10

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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: _____



Pace® Location Requested (City/State):
Pace Analytical Kansas
9608 Loiret Blvd., Lenexa, KS 66219

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here



60976999

Scan QR Code for instructions

Company Name: **Evergy Kansas Central, Inc.**
Street Address: **818 S Kansas Avenue, Topeka, KS 66612**

Customer Project #:
Project Name: **JEC FAL CCR - Annual**

Site Collection Info/Facility ID (as applicable):
Jeffrey Energy Center

Contact/Report To: **Jake Humphrey**
Phone #: **(913)634-0605**
E-Mail: **jake.humphrey@evergy.com**
Cc E-Mail: **skaney@haleyaldrich.com**

Invoice To: **Jeffrey Center**
Invoice E-Mail: **evergyap@onlinecapturecenter.com**
Purchase Order # (if applicable): **2000120242**
Quote #:

Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET
Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

County / State origin of sample(s): **Kansas**
Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [X] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
DW PWSID # or WW Permit # as applicable: **NA**
Date Results Requested:
Field Filtered (if applicable): [] Yes [X] No
Analysis:

Specify Container Size **
3 3
Identify Container Preservative Type***
2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
*** 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

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), 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)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		200.7/200.8/245.1/6010 **see lists	300.0 IC Fluoride
			Date	Time	Date	Time		Results	Units		
FAA-3-061025	WT	Grab	-	-	6/10/2025	1035	2	-	-	X	X
FAA-4-061025	WT	Grab	-	-	6/10/2025	1120	2	-	-	X	X
FAA-5-061025	WT	Grab	-	-	6/10/2025	1215	2	-	-	X	X
FAA-6-061025	WT	Grab	-	-	6/10/2025	940	2	-	-	X	X
JEC-FAA-DUP-061025	WT	Grab	-	-	6/10/2025	940	2	-	-	X	X

Lab Use Only
Proj. Mgr: **Alice Spiller**
AcctNum / Client ID:
Table #:
Profile / Template: **16500**
Prelog / Bottle Ord. ID: **EZ 3266650**
Sample Comment

Additional Instructions from Pace®:
200.8 Sb,As,Cd,Co,Mo,Se,Tl
200.7 Ba, Be, Cr, Pb
6010 Li
245.1 Hg

Collected By: **Matt VanderPutten**
(Printed Name)
Signature: *Matt VanderPutten*

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Relinquished by/Company: (Signature) *Matt VanderPutten* / **SCS**
Date/Time: **06/10/25 / 16:00**

Received by/Company: (Signature) *AF Pace*
Date/Time: **6/10/25 1557**

Tracking Number:
Delivered by: [] In-Person [] Courier
[] FedEX [] UPS [] Other
Page: **1** of **1**

Client: Evergy

Profile/EZ # EZ 3266650

Site: JEC Fal CCP-Annual

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	WP																														
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NAOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NAOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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 plstic				

WO# : 60476999
 PM: AS Due Date: 06/25/25
 CLIENT: Evergy_Haley

Work Order Num

ATTACHMENT 2-3
September 2025 Semiannual Sampling Event
Laboratory Analytical Report



September 30, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: MW-FAA-5
Pace Project No.: 60482163

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 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,

A handwritten signature in cursive script that reads "Alice Spiller".

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MW-FAA-5

Pace Project No.: 60482163

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: MW-FAA-5
Pace Project No.: 60482163

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482163001	FAA-5-090925	Water	09/09/25 14:15	09/10/25 15:34

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MW-FAA-5

Pace Project No.: 60482163

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482163001	FAA-5-090925	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	11	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 947863

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482163001,60482167004

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

- MS (Lab ID: 3757121)
 - Calcium
- MSD (Lab ID: 3757122)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948354

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482160002

R1: RPD value was outside control limits.

- MSD (Lab ID: 3758748)
 - Antimony
 - Arsenic
 - Barium
 - Beryllium
 - Cadmium
 - Chromium
 - Cobalt
 - Lead
 - Molybdenum
 - Selenium
 - Thallium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 948354

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 3761475)
 - Arsenic
 - Beryllium
 - Cadmium
 - Cobalt
 - Chromium
 - Molybdenum
 - Lead
 - Antimony
 - Selenium
 - Thallium

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FAA-5-090925 (Lab ID: 60482163001)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: MW-FAA-5

Pace Project No.: 60482163

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

1 sample was analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948911

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482160001,60482161005

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

- MS (Lab ID: 3761114)
- Fluoride

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: MW-FAA-5

Pace Project No.: 60482163

Sample: FAA-5-090925	Lab ID: 60482163001	Collected: 09/09/25 14:15	Received: 09/10/25 15:34	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	1.8	mg/L	0.10	1	09/15/25 08:01	09/26/25 18:33	7440-42-8	
Calcium, Total Recoverable	520	mg/L	0.20	1	09/15/25 08:01	09/26/25 18:33	7440-70-2	M1
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.16	mg/L	0.010	1	09/12/25 05:52	09/26/25 18:11	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7440-36-0	
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7440-38-2	
Barium, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7440-39-3	
Beryllium, Total Recoverable	<0.00050	mg/L	0.00050	1	09/17/25 08:51	09/22/25 14:43	7440-41-7	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	09/17/25 08:51	09/22/25 14:43	7440-43-9	
Chromium, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7440-47-3	
Cobalt, Total Recoverable	0.0026	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7439-92-1	
Molybdenum, Total Recoverable	0.020	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:51	09/22/25 14:43	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	09/17/25 15:07	09/18/25 11:03	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3610	mg/L	100	1		09/16/25 08:25		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	6.8	Std. Units	0.10	1		09/12/25 10:16		H3
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	164	mg/L	50.0	50		09/23/25 09:14	16887-00-6	
Fluoride	0.28	mg/L	0.20	1		09/23/25 09:01	16984-48-8	
Sulfate	2110	mg/L	200	200		09/24/25 22:33	14808-79-8	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 948453

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482163001

METHOD BLANK: 3759211

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	09/18/25 10:52	

LABORATORY CONTROL SAMPLE: 3759212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759213 3759214

Parameter	Units	60482160005		3759213		3759214		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Mercury	ug/L	<0.20	5	5	5	4.7	4.8	95	95	70-130	0	20	

MATRIX SPIKE SAMPLE: 3759215

Parameter	Units	60482199001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.7	94	70-130	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 947863

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: 60482163001

METHOD BLANK: 3757119

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	09/26/25 18:30	
Calcium	mg/L	<0.20	0.20	09/26/25 18:30	

LABORATORY CONTROL SAMPLE: 3757120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	9.7	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3757121 3757122

Parameter	Units	60482163001		3757122		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron	mg/L	1.8	1	1	2.7	2.7	93	92	70-130	0	20
Calcium	mg/L	520	10	10	523	521	35	14	70-130	0	20 M1

MATRIX SPIKE SAMPLE: 3757123

Parameter	Units	60482167004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L		0.22	1	1.1	92	70-130
Calcium	mg/L		104	10	113	91	70-130

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 948354

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482163001

METHOD BLANK: 3758745

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	09/22/25 14:10	
Arsenic	mg/L	<0.0010	0.0010	09/22/25 14:10	
Barium	mg/L	<0.0010	0.0010	09/22/25 14:10	
Beryllium	mg/L	<0.00050	0.00050	09/22/25 14:10	
Cadmium	mg/L	<0.00050	0.00050	09/22/25 14:10	
Chromium	mg/L	<0.0010	0.0010	09/22/25 14:10	
Cobalt	mg/L	<0.0010	0.0010	09/22/25 14:10	
Lead	mg/L	<0.0010	0.0010	09/22/25 14:10	
Molybdenum	mg/L	<0.0010	0.0010	09/22/25 14:10	
Selenium	mg/L	<0.0010	0.0010	09/22/25 14:10	
Thallium	mg/L	<0.0010	0.0010	09/22/25 14:10	

LABORATORY CONTROL SAMPLE: 3758746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.040	100	85-115	
Arsenic	mg/L	0.04	0.040	100	85-115	
Barium	mg/L	0.04	0.041	102	85-115	
Beryllium	mg/L	0.04	0.041	102	85-115	
Cadmium	mg/L	0.04	0.041	103	85-115	
Chromium	mg/L	0.04	0.042	105	85-115	
Cobalt	mg/L	0.04	0.042	105	85-115	
Lead	mg/L	0.04	0.041	103	85-115	
Molybdenum	mg/L	0.04	0.042	104	85-115	
Selenium	mg/L	0.04	0.039	99	85-115	
Thallium	mg/L	0.04	0.041	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758747 3758748

Parameter	Units	60482160002		3758747		3758748		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	<0.0010	0.04	0.08	0.039	0.076	96	94	70-130	65	20	R1	
Arsenic	mg/L	0.0016	0.04	0.08	0.041	0.080	100	98	70-130	63	20	R1	
Barium	mg/L	0.067	0.04	0.08	0.11	0.14	105	97	70-130	28	20	R1	
Beryllium	mg/L	<0.00050	0.04	0.08	0.040	0.076	99	94	70-130	62	20	R1	
Cadmium	mg/L	<0.00050	0.04	0.08	0.039	0.075	97	94	70-130	64	20	R1	
Chromium	mg/L	0.0036	0.04	0.08	0.049	0.092	114	110	70-130	61	20	R1	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758747 3758748

Parameter	Units	60482160002		MS	MSD	3758748		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result							
Cobalt	mg/L	0.0015	0.04	0.08	0.043	0.083	104	102	70-130	63	20	R1		
Lead	mg/L	0.0014	0.04	0.08	0.040	0.078	98	95	70-130	63	20	R1		
Molybdenum	mg/L	0.0022	0.04	0.08	0.045	0.086	108	105	70-130	62	20	R1		
Selenium	mg/L	<0.0010	0.04	0.08	0.038	0.075	95	94	70-130	65	20	R1		
Thallium	mg/L	<0.0010	0.04	0.08	0.040	0.078	99	98	70-130	65	20	R1		

SAMPLE DUPLICATE: 3761475

Parameter	Units	60482169001		Dup Result	RPD	Max RPD	Qualifiers
		Result	Result				
Antimony	mg/L	<0.020	<0.020	<0.020		20	D3
Arsenic	mg/L	<0.020	<0.020	<0.020		20	D3
Barium	mg/L	0.043	0.053		19	20	
Beryllium	mg/L	<0.010	<0.010	<0.010		20	D3
Cadmium	mg/L	<0.010	<0.010	<0.010		20	D3
Chromium	mg/L	<0.020	<0.020	<0.020		20	D3
Cobalt	mg/L	<0.020	<0.020	<0.020		20	D3
Lead	mg/L	<0.020	<0.020	<0.020		20	D3
Molybdenum	mg/L	<0.020	<0.020	<0.020		20	D3
Selenium	mg/L	<0.020	<0.020	<0.020		20	D3
Thallium	mg/L	<0.020	<0.020	<0.020		20	D3

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 947730

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482163001

METHOD BLANK: 3756558

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/26/25 17:49	

LABORATORY CONTROL SAMPLE: 3756559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3756560 3756561

Parameter	Units	60482160001		3756561		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lithium	mg/L	0.013	1	1	0.98	0.99	97	98	75-125	1	20

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 948030

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482163001

METHOD BLANK: 3757829

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/16/25 08:25	

LABORATORY CONTROL SAMPLE: 3757830

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

SAMPLE DUPLICATE: 3757831

Parameter	Units	60482022001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3980	4280	7	10	

SAMPLE DUPLICATE: 3757832

Parameter	Units	60482164004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1900	1890	0	10	

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 947620

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482163001

SAMPLE DUPLICATE: 3756053

Parameter	Units	60482164004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	0	5	H3

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 948911

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: 60482163001

METHOD BLANK: 3761110

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/25 00:43	
Fluoride	mg/L	<0.20	0.20	09/23/25 00:43	

LABORATORY CONTROL SAMPLE: 3761111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761112 3761113

Parameter	Units	60482160001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	125	250	250	374	371	99	98	80-120	1	15	CL
Fluoride	mg/L	<0.20	2.5	2.5	3.0	2.9	112	110	80-120	2	15	

MATRIX SPIKE SAMPLE: 3761114

Parameter	Units	60482161005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2230	1000	3320	109	80-120	
Fluoride	mg/L	<0.20	2.5	1.8	70	80-120 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MW-FAA-5

Pace Project No.: 60482163

QC Batch: 949238

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: 60482163001

METHOD BLANK: 3762033

Matrix: Water

Associated Lab Samples: 60482163001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	1.0	09/24/25 18:24	

LABORATORY CONTROL SAMPLE: 3762034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3762035 3762036

Parameter	Units	60482498027		3762035		3762036		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Sulfate	mg/L	ND	2500	2500	2750	2720	96	94	80-120	1	15

MATRIX SPIKE SAMPLE: 3762037

Parameter	Units	60482161003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	208	100	305	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MW-FAA-5

Pace Project No.: 60482163

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

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MW-FAA-5

Pace Project No.: 60482163

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482163001	FAA-5-090925	EPA 200.7	947863	EPA 200.7	948052
60482163001	FAA-5-090925	EPA 3010	947730	EPA 6010	947801
60482163001	FAA-5-090925	EPA 200.8	948354	EPA 200.8	948414
60482163001	FAA-5-090925	EPA 245.1	948453	EPA 245.1	948491
60482163001	FAA-5-090925	SM 2540C	948030		
60482163001	FAA-5-090925	SM 4500-H+B	947620		
60482163001	FAA-5-090925	EPA 300.0	948911		
60482163001	FAA-5-090925	EPA 300.0	949238		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2022

Issue

WO#: 60482163



60482163

Client Name: Energy KS Central

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 Ziploc

Thermometer Used: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.0 Corr. Factor 0.0 Corrected 4.0

Date and initials of person examining contents: 9-10 DP

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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: _____

Client: Energy KS Central

Profile/EZ # 16500/EZ 3295167

Site: MW-FAA-5 Jeffrey Energy center 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																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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 plstic				

Work Order Number:

60482163



October 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: MW-FAA-5 RADCHEM
Pace Project No.: 60482165

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 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 - Greensburg

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MW-FAA-5 RADCHEM
Pace Project No.: 60482165

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482165001	FAA-5-090925	Water	09/09/25 14:15	09/10/25 15:34

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482165001	FAA-5-090925	EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy_Haley & Aldrich

Date: October 08, 2025

General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy_Haley & Aldrich

Date: October 08, 2025

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy_Haley & Aldrich

Date: October 08, 2025

General Information:

1 sample was analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FAA-5-090925 Lab ID: 60482165001 Collected: 09/09/25 14:15 Received: 09/10/25 15:34 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.740 ± 0.491 (0.647) C:NA T:100%	pCi/L	10/01/25 12:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.682 ± 0.377 (0.679) C:86% T:86%	pCi/L	09/29/25 15:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.42 ± 0.619 (0.679)	pCi/L	10/01/25 16:32	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

QC Batch: 771207

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60482165001

METHOD BLANK: 3759743

Matrix: Water

Associated Lab Samples: 60482165001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.139 ± 0.307 (0.750) C:80% T:89%	pCi/L	09/29/25 15:38	

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 - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

QC Batch: 771205

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60482165001

METHOD BLANK: 3759742

Matrix: Water

Associated Lab Samples: 60482165001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0397 ± 0.181 (0.369) C:NA T:103%	pCi/L	10/01/25 12:56	

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: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MW-FAA-5 RADCHEM

Pace Project No.: 60482165

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482165001	FAA-5-090925	EPA 903.1	771205		
60482165001	FAA-5-090925	EPA 904.0	771207		
60482165001	FAA-5-090925	Total Radium Calculation	774487		

REPORT OF LABORATORY ANALYSIS

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WO:

WO#: 60482165



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



Revision: 2

Effective Date: 01/12

Client Name: Energy KS Central, Inc

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 Ziplax

Thermometer Used: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 22.0 Corr. Factor 0.0 Corrected 22.0

Date and initials of person examining contents: 9-10 DP

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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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>99888</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: _____

Client: Evergy KS Central, Inc
 Site: MW-FAA-5 RADCHEM

Profile/EZ # 16500 / EZ 3295168
 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								
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WG9U	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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 plstic				

WO# : 60482165
 PM: AS Due Date: 10/09/25
 CLIENT: Evergy_Haley



DC#_Title: ENV-FRM-GBUR-0088 v09_Sample Condition Upon Receipt-
Greensburg

WO#: 30810196

Effective Date: 06/24/2025

PM: CMC

Due Date: 10/03/25

Client Name: Pace -KS

Proj

CLIENT: PACE_60_LEKS

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Initial / Date

Tracking Number: 445389366939

Examined By: ps 9/15/25

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No
Therm. Used: _____ Type of Ice: Wet Blue None

Labeled By: ps 9/16/25

Temped By: _____

Cooler Temp: _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

pH paper Lot# 10043241 D.P.D. Residual Chlorine Lot # _____

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



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: DSO
Date: 9/22/2025
Batch ID: 87101
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	3759742	
MB concentration:	-0.040	
M/B 2 Sigma CSU:	0.181	
MB MDC:	0.369	
MB Numerical Performance Indicator:	-0.43	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	N/A	

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS87101	LCSD87101
Count Date:	10/1/2025	10/1/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.876	31.876
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.659	0.660
Target Conc. (pCi/L, g, F):	4.836	4.833
Uncertainty (Calculated):	0.227	0.227
Result (pCi/L, g, F):	4.589	4.776
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.002	1.001
Numerical Performance Indicator:	-0.47	-0.11
Percent Recovery:	94.88%	98.81%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87101	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD87101	
Sample Result (pCi/L, g, F):	4.589	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.002	
Sample Duplicate Result (pCi/L, g, F):	4.776	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.001	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.259	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.06%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

TY 10-1-25 00 10/1/25



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 9/24/2025
Worklist: 87102
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3759743
MB concentration:	-0.139
M/B 2 Sigma CSU:	0.307
MB MDC:	0.750
MB Numerical Performance Indicator:	-0.89
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD87102	LCSD87102
Count Date:	9/29/2025	9/29/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.134	31.134
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.824	0.818
Target Conc. (pCi/L, g, F):	3.778	3.808
Uncertainty (Calculated):	0.185	0.187
Result (pCi/L, g, F):	4.164	4.169
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.967	0.962
Numerical Performance Indicator:	0.77	0.72
Percent Recovery:	110.19%	109.50%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCSB7102	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD87102	
Sample Result (pCi/L, g, F):	4.164	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.967	
Sample Duplicate Result (pCi/L, g, F):	4.169	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.962	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.008	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.63%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
10/1/25



September 30, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR
Pace Project No.: 60482253

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 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,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR

Pace Project No.: 60482253

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: JEC FAL CCR
Pace Project No.: 60482253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482253001	FAA-3-090825	Water	09/08/25 14:10	09/11/25 10:55
60482253002	FAA-4-090825	Water	09/08/25 15:20	09/11/25 10:55
60482253003	FAA-6-090825	Water	09/08/25 13:35	09/11/25 10:55
60482253004	JEC-FAA-DUP-090825	Water	09/08/25 13:35	09/11/25 10:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR

Pace Project No.: 60482253

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482253001	FAA-3-090825	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	6	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	3	PASI-K
60482253002	FAA-4-090825	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	6	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	3	PASI-K
60482253003	FAA-6-090825	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	6	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	3	PASI-K
60482253004	JEC-FAA-DUP-090825	EPA 200.7	ARMN	2	PASI-K
		EPA 6010	ARMN	1	PASI-K
		EPA 200.8	CJM	6	PASI-K
		EPA 245.1	MNG	1	PASI-K
		SM 2540C	CAR	1	PASI-K
		SM 4500-H+B	EMB	1	PASI-K
		EPA 300.0	GTS	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for EPA 200.7 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 948292

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482240003,60482367001

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

- MS (Lab ID: 3758572)
 - Boron
 - Calcium
- MS (Lab ID: 3758574)
 - Boron
 - Calcium
- MSD (Lab ID: 3758573)
 - Boron
 - Calcium

R1: RPD value was outside control limits.

- MSD (Lab ID: 3758573)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for EPA 6010 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for EPA 200.8 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 948293

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 3760857)
 - Arsenic
 - Cobalt
 - Molybdenum
 - Lead
 - Antimony

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for EPA 245.1 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for SM 2540C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for SM 4500-H+B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- FAA-3-090825 (Lab ID: 60482253001)
- FAA-4-090825 (Lab ID: 60482253002)
- FAA-6-090825 (Lab ID: 60482253003)
- JEC-FAA-DUP-090825 (Lab ID: 60482253004)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: JEC FAL CCR

Pace Project No.: 60482253

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy_Haley & Aldrich

Date: September 30, 2025

General Information:

4 samples were analyzed for EPA 300.0 by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 949073

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60482240001,60482253001

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

- MSD (Lab ID: 3761512)
 - Chloride
 - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3761512)
 - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 949073

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3761511)
 - Sulfate
- MS (Lab ID: 3761513)
 - Sulfate
- MSD (Lab ID: 3761512)
 - Sulfate

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: JEC FAL CCR
Pace Project No.: 60482253

Sample: FAA-3-090825	Lab ID: 60482253001	Collected: 09/08/25 14:10	Received: 09/11/25 10:55	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	0.50	mg/L	0.10	1	09/17/25 08:51	09/29/25 18:28	7440-42-8	
Calcium, Total Recoverable	281	mg/L	0.20	1	09/17/25 08:51	09/29/25 18:28	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.017	mg/L	0.010	1	09/12/25 05:52	09/26/25 17:28	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:07	7440-36-0	
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:07	7440-38-2	
Barium, Total Recoverable	0.028	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:07	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:07	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:07	7439-92-1	
Molybdenum, Total Recoverable	0.0047	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:07	7439-98-7	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	09/17/25 15:07	09/18/25 13:55	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1710	mg/L	40.0	1		09/12/25 16:17		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	6.9	Std. Units	0.10	1		09/12/25 17:45		H3
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	159	mg/L	50.0	50		09/23/25 22:38	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/23/25 21:48	16984-48-8	
Sulfate	817	mg/L	50.0	50		09/23/25 22:38	14808-79-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR
Pace Project No.: 60482253

Sample: FAA-4-090825	Lab ID: 60482253002	Collected: 09/08/25 15:20	Received: 09/11/25 10:55	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	0.53	mg/L	0.10	1	09/17/25 08:51	09/29/25 18:30	7440-42-8	
Calcium, Total Recoverable	188	mg/L	0.20	1	09/17/25 08:51	09/29/25 18:30	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.021	mg/L	0.010	1	09/12/25 05:52	09/26/25 17:30	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:09	7440-36-0	
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:09	7440-38-2	
Barium, Total Recoverable	0.052	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:09	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:09	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:09	7439-92-1	
Molybdenum, Total Recoverable	0.0065	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:09	7439-98-7	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	0.75	ug/L	0.20	1	09/17/25 15:07	09/18/25 13:57	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1210	mg/L	20.0	1		09/12/25 16:17		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/12/25 17:45		H3
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	137	mg/L	50.0	50		09/23/25 23:16	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/23/25 23:04	16984-48-8	
Sulfate	639	mg/L	50.0	50		09/23/25 23:16	14808-79-8	

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**ANALYTICAL RESULTS**

Project: JEC FAL CCR

Pace Project No.: 60482253

Sample: FAA-6-090825	Lab ID: 60482253003	Collected: 09/08/25 13:35	Received: 09/11/25 10:55	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	3.5	mg/L	0.10	1	09/17/25 08:51	09/29/25 18:31	7440-42-8	
Calcium, Total Recoverable	94.0	mg/L	0.20	1	09/17/25 08:51	09/29/25 18:31	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	09/12/25 05:52	09/26/25 17:32	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:16	7440-36-0	
Arsenic, Total Recoverable	0.0088	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:16	7440-38-2	
Barium, Total Recoverable	0.021	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:16	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:16	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:16	7439-92-1	
Molybdenum, Total Recoverable	0.53	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:16	7439-98-7	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	09/17/25 15:07	09/18/25 11:52	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2390	mg/L	66.7	1		09/12/25 16:17		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	8.5	Std. Units	0.10	1		09/12/25 17:44		H3
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	56.4	mg/L	10.0	10		09/23/25 23:41	16887-00-6	
Fluoride	0.65	mg/L	0.20	1		09/23/25 23:29	16984-48-8	
Sulfate	1350	mg/L	100	100		09/23/25 23:54	14808-79-8	

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ANALYTICAL RESULTS

Project: JEC FAL CCR

Pace Project No.: 60482253

Sample: JEC-FAA-DUP-090825	Lab ID: 60482253004	Collected: 09/08/25 13:35	Received: 09/11/25 10:55	Matrix: Water				
Parameters	Results	Units	Report Limit	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, Total Recoverable	3.6	mg/L	0.10	1	09/17/25 08:51	09/29/25 18:33	7440-42-8	
Calcium, Total Recoverable	94.4	mg/L	0.20	1	09/17/25 08:51	09/29/25 18:33	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	09/12/25 05:52	09/26/25 17:34	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:19	7440-36-0	
Arsenic, Total Recoverable	0.0092	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:19	7440-38-2	
Barium, Total Recoverable	0.021	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:19	7440-39-3	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:19	7440-48-4	
Lead, Total Recoverable	<0.0010	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:19	7439-92-1	
Molybdenum, Total Recoverable	0.55	mg/L	0.0010	1	09/17/25 08:17	09/19/25 13:19	7439-98-7	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	09/17/25 15:07	09/18/25 11:54	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2360	mg/L	100	1		09/12/25 16:18		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	8.5	Std. Units	0.10	1		09/12/25 17:45		H3
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	59.4	mg/L	10.0	10		09/24/25 00:19	16887-00-6	
Fluoride	0.65	mg/L	0.20	1		09/24/25 00:06	16984-48-8	
Sulfate	1990	mg/L	100	100		09/24/25 00:57	14808-79-8	

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch: 948453

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

METHOD BLANK: 3759211

Matrix: Water

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	09/18/25 10:52	

LABORATORY CONTROL SAMPLE: 3759212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3759213 3759214

Parameter	Units	60482160005		3759213		3759214		% Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Mercury	ug/L	<0.20	5	5	4.7	4.8	95	95	70-130	0	20		

MATRIX SPIKE SAMPLE: 3759215

Parameter	Units	60482199001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.7	94	70-130	

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch:	948292	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: 60482253001, 60482253002, 60482253003, 60482253004

METHOD BLANK: 3758570 Matrix: Water
 Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	<0.10	0.10	09/29/25 18:05	
Calcium	mg/L	<0.20	0.20	09/29/25 18:05	

LABORATORY CONTROL SAMPLE: 3763005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	85-115	
Calcium	mg/L	10	9.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758572 3758573

Parameter	Units	60482240003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.47	2	2	1.3	1.4	43	48	70-130	8	20	M1
Calcium	mg/L	245	20	20	202	273	-213	139	70-130	30	20	M1,R1

MATRIX SPIKE SAMPLE: 3758574

Parameter	Units	60482367001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	2.3	2	2.3	0	70-130	M1
Calcium	mg/L	159	20	158	-5	70-130	M1

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch: 948293 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

METHOD BLANK: 3758575 Matrix: Water

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	09/19/25 12:31	
Arsenic	mg/L	<0.0010	0.0010	09/19/25 12:31	
Barium	mg/L	<0.0010	0.0010	09/19/25 12:31	
Cobalt	mg/L	<0.0010	0.0010	09/19/25 12:31	
Lead	mg/L	<0.0010	0.0010	09/19/25 12:31	
Molybdenum	mg/L	<0.0010	0.0010	09/19/25 12:31	

LABORATORY CONTROL SAMPLE: 3758576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	98	85-115	
Arsenic	mg/L	0.04	0.038	96	85-115	
Barium	mg/L	0.04	0.040	100	85-115	
Cobalt	mg/L	0.04	0.040	99	85-115	
Lead	mg/L	0.04	0.041	102	85-115	
Molybdenum	mg/L	0.04	0.040	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3758577 3758578

Parameter	Units	60482240002		3758577		3758578		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	<0.0010	0.04	0.04	0.04	0.038	0.039	94	97	97	70-130	3	20	
Arsenic	mg/L	<0.0010	0.04	0.04	0.04	0.038	0.039	92	95	95	70-130	3	20	
Barium	mg/L	0.097	0.04	0.04	0.04	0.14	0.15	97	121	121	70-130	7	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.04	0.040	0.042	101	104	104	70-130	3	20	
Lead	mg/L	<0.0010	0.04	0.04	0.04	0.036	0.038	88	92	92	70-130	4	20	
Molybdenum	mg/L	<0.0010	0.04	0.04	0.04	0.044	0.046	109	115	115	70-130	5	20	

SAMPLE DUPLICATE: 3760857

Parameter	Units	60482367002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	mg/L	<1.2 ug/L	<0.010			20 D3
Arsenic	mg/L	0.0013J	<0.010			20 D3
Barium	mg/L	0.051	0.051	1		20
Cobalt	mg/L	<0.0010	<0.010			20 D3
Lead	mg/L	<0.0023	<0.010			20 D3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

SAMPLE DUPLICATE: 3760857

Parameter	Units	60482367002 Result	Dup Result	RPD	Max RPD	Qualifiers
Molybdenum	mg/L	0.0018J	<0.010		20	D3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch: 947732	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

METHOD BLANK: 3756566 Matrix: Water
 Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/26/25 17:06	

LABORATORY CONTROL SAMPLE: 3756567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3756568 3756569

Parameter	Units	60482240001		3756568		3756569		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Lithium	mg/L	0.011	1	1	0.99	1.0	98	98	75-125	1	20

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch: 947814	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

METHOD BLANK: 3756839 Matrix: Water
 Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/12/25 16:15	

LABORATORY CONTROL SAMPLE: 3756840

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

SAMPLE DUPLICATE: 3756841

Parameter	Units	60482161001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	538	538	0	10	

SAMPLE DUPLICATE: 3756842

Parameter	Units	60482167001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1490	1500	1	10	

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch: 947950

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

SAMPLE DUPLICATE: 3757438

Parameter	Units	60482253003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.5	0	5	H3

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QUALITY CONTROL DATA

Project: JEC FAL CCR

Pace Project No.: 60482253

QC Batch:	949073	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: 60482253001, 60482253002, 60482253003, 60482253004

METHOD BLANK: 3761509 Matrix: Water

Associated Lab Samples: 60482253001, 60482253002, 60482253003, 60482253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/25 14:53	
Fluoride	mg/L	<0.20	0.20	09/23/25 14:53	
Sulfate	mg/L	<1.0	1.0	09/23/25 14:53	

LABORATORY CONTROL SAMPLE: 3761510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761511 3761512

Parameter	Units	60482240001		3761511		3761512		% 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	43.0	100	100	124	93.8	81	51	80-120	28	15	M1, R1	
Fluoride	mg/L	<0.20	2.5	2.5	2.3	2.4	93	96	80-120	3	15		
Sulfate	mg/L	345	100	100	434	402	89	57	80-120	8	15	E, M1	

MATRIX SPIKE SAMPLE: 3761513

Parameter	Units	60482253001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	159	250	385	90	80-120	
Fluoride	mg/L	<0.20	2.5	2.7	103	80-120	
Sulfate	mg/L	817	250	1060	96	80-120 E	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: JEC FAL CCR

Pace Project No.: 60482253

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

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

H3 Sample was received or analysis requested beyond the recognized method holding time.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR

Pace Project No.: 60482253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482253001	FAA-3-090825	EPA 200.7	948292	EPA 200.7	948413
60482253002	FAA-4-090825	EPA 200.7	948292	EPA 200.7	948413
60482253003	FAA-6-090825	EPA 200.7	948292	EPA 200.7	948413
60482253004	JEC-FAA-DUP-090825	EPA 200.7	948292	EPA 200.7	948413
60482253001	FAA-3-090825	EPA 3010	947732	EPA 6010	947799
60482253002	FAA-4-090825	EPA 3010	947732	EPA 6010	947799
60482253003	FAA-6-090825	EPA 3010	947732	EPA 6010	947799
60482253004	JEC-FAA-DUP-090825	EPA 3010	947732	EPA 6010	947799
60482253001	FAA-3-090825	EPA 200.8	948293	EPA 200.8	948433
60482253002	FAA-4-090825	EPA 200.8	948293	EPA 200.8	948433
60482253003	FAA-6-090825	EPA 200.8	948293	EPA 200.8	948433
60482253004	JEC-FAA-DUP-090825	EPA 200.8	948293	EPA 200.8	948433
60482253001	FAA-3-090825	EPA 245.1	948453	EPA 245.1	948491
60482253002	FAA-4-090825	EPA 245.1	948453	EPA 245.1	948491
60482253003	FAA-6-090825	EPA 245.1	948453	EPA 245.1	948491
60482253004	JEC-FAA-DUP-090825	EPA 245.1	948453	EPA 245.1	948491
60482253001	FAA-3-090825	SM 2540C	947814		
60482253002	FAA-4-090825	SM 2540C	947814		
60482253003	FAA-6-090825	SM 2540C	947814		
60482253004	JEC-FAA-DUP-090825	SM 2540C	947814		
60482253001	FAA-3-090825	SM 4500-H+B	947950		
60482253002	FAA-4-090825	SM 4500-H+B	947950		
60482253003	FAA-6-090825	SM 4500-H+B	947950		
60482253004	JEC-FAA-DUP-090825	SM 4500-H+B	947950		
60482253001	FAA-3-090825	EPA 300.0	949073		
60482253002	FAA-4-090825	EPA 300.0	949073		
60482253003	FAA-6-090825	EPA 300.0	949073		
60482253004	JEC-FAA-DUP-090825	EPA 300.0	949073		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2022

Issue

WO# : 60482253

60482253

Client Name: Energy KS Central, Inc

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 2pic

Thermometer Used: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2.7 Corr. Factor 0.0 Corrected 2.7

Date and initials of person examining contents: 9-11 DP

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>96888</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: _____

Client: Energy KS Central, Inc.

Profile/EZ # 16500/EZ 3295158

Site: JEC FAL CCR

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

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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: 60482253



October 08, 2025

Jake Humphrey
Evergy, Inc.
818 S Kansas Avenue
Topeka, KS 66612

RE: Project: JEC FAL CCR RADCHEM
Pace Project No.: 60482259

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 11, 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 - Greensburg

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

Sincerely,

Alice Spiller
alice.spiller@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: Jordan Eichman, Haley & Aldrich, Inc.
Samantha Kaney, Haley & Aldrich
Nick Williams, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: JEC FAL CCR RADCHEM
Pace Project No.: 60482259

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60482259001	FAA-3-090825	Water	09/08/25 14:10	09/11/25 10:55
60482259002	FAA-4-090825	Water	09/08/25 15:20	09/11/25 10:55
60482259003	FAA-6-090825	Water	09/08/25 13:35	09/11/25 10:55
60482259004	JEC-FAA-DUP-090825	Water	09/08/25 13:35	09/11/25 10:55

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SAMPLE ANALYTE COUNT

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60482259001	FAA-3-090825	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482259002	FAA-4-090825	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482259003	FAA-6-090825	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60482259004	JEC-FAA-DUP-090825	EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy_Haley & Aldrich

Date: October 08, 2025

General Information:

4 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy_Haley & Aldrich

Date: October 08, 2025

General Information:

4 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy_Haley & Aldrich

Date: October 08, 2025

General Information:

4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.101 ± 0.314 (0.714) C:NA T:100%	pCi/L	09/30/25 15:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.524 ± 0.355 (0.668) C:70% T:90%	pCi/L	09/29/25 12:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.524 ± 0.474 (0.714)	pCi/L	09/30/25 16:10	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Sample: FAA-4-090825 **Lab ID: 60482259002** Collected: 09/08/25 15:20 Received: 09/11/25 10:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0643 ± 0.520 (1.00) C:NA T:97%	pCi/L	09/30/25 15:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.510 ± 0.463 (0.936) C:56% T:88%	pCi/L	09/29/25 12:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.510 ± 0.696 (1.000)	pCi/L	09/30/25 16:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FAA-6-090825 Lab ID: 60482259003 Collected: 09/08/25 13:35 Received: 09/11/25 10:55 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.111 ± 0.550 (0.976) C:NA T:95%	pCi/L	09/30/25 15:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.58 ± 0.801 (1.39) C:37% T:89%	pCi/L	09/29/25 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.69 ± 0.972 (1.39)	pCi/L	09/30/25 16:10	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Sample: JEC-FAA-DUP-090825 **Lab ID: 60482259004** Collected: 09/08/25 13:35 Received: 09/11/25 10:55 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.379 ± 0.602 (0.970) C:NA T:92%	pCi/L	09/30/25 15:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.04 ± 0.425 (0.633) C:69% T:89%	pCi/L	09/29/25 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.42 ± 0.737 (0.970)	pCi/L	09/30/25 16:10	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

QC Batch: 771042

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60482259001, 60482259002, 60482259003, 60482259004

METHOD BLANK: 3759181

Matrix: Water

Associated Lab Samples: 60482259001, 60482259002, 60482259003, 60482259004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.188 (0.303) C:NA T:92%	pCi/L	09/30/25 14:29	

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 - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

QC Batch: 771044

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60482259001, 60482259002, 60482259003, 60482259004

METHOD BLANK: 3759182

Matrix: Water

Associated Lab Samples: 60482259001, 60482259002, 60482259003, 60482259004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.342 ± 0.354 (0.729) C:75% T:84%	pCi/L	09/29/25 12:32	

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: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60482259

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60482259001	FAA-3-090825	EPA 903.1	771042		
60482259002	FAA-4-090825	EPA 903.1	771042		
60482259003	FAA-6-090825	EPA 903.1	771042		
60482259004	JEC-FAA-DUP-090825	EPA 903.1	771042		
60482259001	FAA-3-090825	EPA 904.0	771044		
60482259002	FAA-4-090825	EPA 904.0	771044		
60482259003	FAA-6-090825	EPA 904.0	771044		
60482259004	JEC-FAA-DUP-090825	EPA 904.0	771044		
60482259001	FAA-3-090825	Total Radium Calculation	774203		
60482259002	FAA-4-090825	Total Radium Calculation	774203		
60482259003	FAA-6-090825	Total Radium Calculation	774203		
60482259004	JEC-FAA-DUP-090825	Total Radium Calculation	774203		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2022

WO#: 60482259



Client Name: Energy US Central, Inc

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 Ziplock

Thermometer Used: T301 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 24.8 Corr. Factor 0-0 Corrected 24.8

Date and initials of person examining contents: 9-11 DP

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>96888</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: _____

Client: Energy US Central, Inc.

Profile/EZ # 16500/EZ 3295160

Site: JEC PAL CCR RADCHEM

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								
2																						2								
3																						2								
4																						2								
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1B	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGDU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unres amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2B	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio, clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	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:

60482259



DC#_ Title: ENV-FRM-GBUR-0088 v09_Sample Condition Upon Receipt- Greensburg

WO#: 30810474

Effective Date: 06/24/2025

PM: CMC Due Date: 10/06/25 CLIENT: PACE_60_LEKS

Client Name: pace-ks Project

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number:

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No Therm. Used: Type of Ice: Wet Blue None

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

Initial / Date Examined By: ps 9/15/25 Labeled By: ps 9/15/25 Temped By:

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				10043241	
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:	/				
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 dechlorination			/		
Filtered volume received for dissolved tests: Cr6+, Orthophosphate, DOC, Metals			/		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, TOX, LL Hg, Radon, non-aqueous matrix	/				
All containers meet method preservation requirements:	/			Initial when completed: ps	Date/Time of Preservation: 9/13/25
8260C/D: Headspace in VOA Vials (> 6mm)			/	Lot# of added Preservative	
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: 9/13/25 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.



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: TMY
Date: 9/19/2025
Batch ID: 87083
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID		3759181
MB concentration:		0.000
M/B 2 Sigma CSU:		0.188
MB MDC:		0.303
MB Numerical Performance Indicator:		0.00
MB Status vs Numerical Indicator:		Pass
MB Status vs. MDC:		N/A

	LCS/D (Y or N)?	
	LCS87083	LCS/D87083
Count Date:	9/30/2025	9/30/2025
Spike I.D.:	25-038	25-038
Spike Concentration (pCi/mL):	31.876	31.876
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.654	0.655
Target Conc. (pCi/L, g, F):	4.872	4.869
Uncertainty (Calculated):	0.229	0.229
Result (pCi/L, g, F):	4.604	4.933
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.041	1.071
Numerical Performance Indicator:	-0.49	0.11
Percent Recovery:	94.50%	101.30%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87083	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS/D87083	
Sample Result (pCi/L, g, F):	4.604	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.041	
Sample Duplicate Result (pCi/L, g, F):	4.933	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.071	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.431	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.94%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	32%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the RL.

Comments:

DD 9/30/25

WAM 9/30/25



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: ZPC
Date: 9/23/2025
Worklist: 87084
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3759182
MB concentration:	0.342
M/B 2 Sigma CSU:	0.354
MB MDC:	0.729
MB Numerical Performance Indicator:	1.89
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS87084	LCS/D87084
Count Date:	9/29/2025	9/29/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.134	31.134
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.824
Target Conc. (pCi/L, g, F):	3.806	3.779
Uncertainty (Calculated):	0.187	0.185
Result (pCi/L, g, F):	3.261	3.075
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.845	0.868
Numerical Performance Indicator:	-1.24	-1.55
Percent Recovery:	85.66%	81.39%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS87084	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS/D87084	
Sample Result (pCi/L, g, F):	3.261	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.845	
Sample Duplicate Result (pCi/L, g, F):	3.075	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.868	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.300	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.12%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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