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2024 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

File No. 210308-000 January 2025



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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 (2024) and documents compliance with the U.S. Environmental Protection Agency Coal Combustion Residual Rule. I certify that the 2024 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: Kansas License No.: Title: Company: Mark Nicholls Professional Geologist No. 881 Principal Consultant Haley & Aldrich, Inc.





1. Introduction

This 2024 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 (2024) 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, 2024), 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, 2024), 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



The FAL is operating under an assessment monitoring program. Therefore, no statistical evaluations were completed on Appendix III constituents in 2024.

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 2024.

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 2024 for the FAL. The statistical evaluation reports for semiannual assessment monitoring events from September 2023 and March 2024 were completed in January 2024 and July 2024, 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 2024 for this unit. The FAL remained in assessment monitoring during 2024.

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 2024. 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.



No assessment of corrective measures was required to be initiated in 2024 for this unit. The FAL remained in assessment monitoring during 2024.

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 2024.



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 the preceding calendar year, the annual report must document the status of the groundwater monitoring and corrective 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 2024.

2.2.1 Status of the Groundwater Monitoring Program

The FAL remained in the assessment monitoring program during 2024.

2.2.2 Key Actions Completed

The 2023 Annual Groundwater Monitoring and Corrective Action Report was completed in January 2024. Statistical evaluation was completed in January 2024 on analytical data from the September 2023 semiannual assessment monitoring sampling event.



A semiannual assessment monitoring sampling event was completed in March 2024 for detected Appendix IV constituents identified from the June 2023 annual assessment monitoring sampling event. An additional sample from monitoring well MW-FAA-6 was collected in May 2024 to confirm analyte concentrations collected in March 2024. Statistical evaluation was completed in August 2024 on analytical data from the March 2024 semiannual assessment monitoring sampling event.

An annual assessment monitoring sampling event was completed in June 2024 to identify detected Appendix IV constituents for subsequent semiannual sampling events in September 2024 and planned for March 2025. Semiannual assessment monitoring sampling was completed in September 2024 for detected Appendix IV constituents identified during the June 2024 annual monitoring event. An additional sample from monitoring well MW-FAA-6 was collected in October 2024 to confirm analyte concentrations from a sample collected in September 2024. Statistical evaluation of the results from the September 2024 semiannual assessment monitoring sampling event are due to be completed in January 2025 and will be reported in the next annual report.

2.2.3 Problems Encountered

Problems encountered during groundwater monitoring activities in 2024 consisted of laboratory analytical errors during the March 2024 and September 2024 semiannual assessment monitoring sampling events that necessitated collection of a verification sample from monitoring well MW-FAA-6 in May 2024 and October 2024, respectively. This was the only issue that needed to be addressed at the FAL in 2024.

2.2.4 Actions to Resolve Problems

The resolution to problems encountered in 2024 included collection of a confirmation groundwater sample from MW-FAA-6, as described above. The analytical results for the sampling events were revised accordingly. No other problems were encountered at the FAL in 2024; therefore, no additional actions to resolve problems were required.

2.2.5 Project Key Activities for Upcoming Year

Key activities planned for 2025 include the completion of the 2024 Annual Groundwater Monitoring and Corrective Action Report, statistical evaluation of semiannual assessment monitoring analytical data collected in September 2024, semiannual assessment monitoring and subsequent statistical evaluations, and annual assessment monitoring.

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 2024.

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 2024. 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 2024 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 2024.



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 2024.

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 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 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 2024. 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 2024 for the September 2023 and March 2024 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 state permitting authority.



No assessment monitoring alternative source demonstration or certification was required in 2024. The FAL remained in assessment monitoring during 2024.

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 for 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 2024. Therefore, no demonstration or certification is applicable for this unit.



TABLES

TABLE I SUMMARY OF ANALYTICAL RESULTS - 2024 ASSESSMENT MONITORING EVERGY KANSAS CENTRAL, INC. JEFFREY ENERGY CENTER, FLY ASH LANDFILL ST. MARYS, KANSAS

| Location | | Upgradient | | | | | | | | Downg | gradient | | | | | | | |
|---|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------|----------------------|----------------------|--------------|----------------------------------|----------------------------------|-----------|----------------------|----------------------|--------------|--------------------|--------------|--|
| Location | | MW-FAA-51 | | | MW-FAA-3 | | | MW-FAA-4 | | MW-FAA-6 | | | | | | | | |
| Measure Point (TOC) | | 1250.80 | | | 1165.66 | | | 1213.81 | | | | | 116 | 52.76 | | | | |
| Sample Name | FAA-5-031424 | FAA-5-061924 | FAA-5-090424 | FAA-3-031424 | FAA-3-061924 | FAA-3-090424 | FAA-4-031324 | FAA-4-061924 | FAA-4-090424 | FAA-6-031424 | JEC-FAA-DUP-031424 | FAA-6 | FAA-6-061924 | JEC-FAA-DUP-061924 | FAA-6-090424 | JEC-FAA-DUP-090424 | FAA-6-102324 | |
| Sample Date | 3/13/2024 | 6/19/2024 | 9/4/2024 | 3/14/2024 | 6/19/2024 | 9/4/2024 | 3/13/2024 | 6/19/2024 | 9/4/2024 | 3/14/2024 | 3/14/2024 | 5/14/2024 | 6/19/2024 | 6/19/2024 | 9/4/2024 | 9/4/2024 | 10/23/2024 | |
| Final Lab Report Date | 3/28/2024 | 7/5/2024 | 9/20/2024 | 3/28/2024 | 7/5/2024 | 9/20/2024 | 3/28/2024 | 7/5/2024 | 9/20/2024 | 3/28/2024 | 3/28/2024 | 6/2/2024 | 7/5/2024 | 7/5/2024 | 9/20/2024 | 9/20/2024 | 10/29/2024 | |
| Final Lab Report Revision Date | 4/26/2024 | 8/1/2024 | N/A | 4/26/2024 | 8/1/2024 | N/A | 4/26/2024 | 8/1/2024 | N/A | 4/26/2024 | 4/26/2024 | N/A | 8/1/2024 | 8/1/2024 | N/A | N/A | N/A | |
| Final Radiation Lab Report Date | 4/3/2024 | 7/19/2024 | 10/1/2024 | 4/10/2023 | 7/19/2024 | N/A | 4/10/2023 | 7/19/2024 | N/A | 4/10/2023 | 4/10/2023 | N/A | 7/19/2024 | 7/19/2024 | N/A | N/A | N/A | |
| Lab Data Reviewed and Validated | 6/17/2024 | 9/10/2024 | 11/14/2024 | 6/17/2024 | 9/10/2024 | 11/14/2024 | 6/17/2024 | 9/10/2024 | 11/14/2024 | 6/17/2024 | 6/17/2024 | 6/17/2024 | 9/10/2024 | 9/10/2024 | 11/14/2024 | 11/14/2024 | 11/14/2024 | |
| Depth to Water (ft btoc) | 86.85 | 87.06 | 86.84 | 17.93 | 12.55 | 12.75 | 56.46 | 55.09 | 56.34 | 13.85 | 13.85 | 13.94 | 13.72 | 13.72 | 13.60 | 13.60 | 14.63 | |
| Temperature (Deg C) | 14.70 | 16.47 | 17.35 | 14.00 | 16.78 | 19.49 | 16.41 | 17.32 | 20.63 | 14.88 | - | 15.91 | 16.79 | - | 17.79 | - | 16.72 | |
| Conductivity (µS/cm) | 3920 | 3490 | 3510 | 2600 | 2280 | 2230 | 1800 | 1640 | 1640 | 2990 | - | 2260 | 2760 | - | 3017 | - | 3780 | |
| Turbidity (NTU) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | - | 0.0 | 0.0 | - | 0.0 | - | 0.0 | |
| Dissolved Oxygen, Field (mg/L) | 0.82 | 1.49 | 0.00 | 0.00 | 0.62 | 0.00 | 0.43 | 0.00 | 1.24 | 0.00 | - | 0.51 | 3.92 | - | 0.00 | - | 0.00 | |
| ORP, Field (mV) | 174 | 111 | 77 | 173 | 44 | 28 | 47 | 90 | 59 | -140 | - | -78 | -178 | - | -194 | - | -214 | |
| pH, Field (su) | 6.92 | 6.48 | 6.90 | 7.00 | 6.69 | 7.19 | 6.56 | 6.79 | 7.19 | 8.46 | - | 7.91 | 7.95 | - | 8.70 | - | 8.64 | |
| Boron, Total (mg/L) | 1.7 | < 0.0010 | 1.7 | 0.51 | < 0.0010 | 0.52 | 0.59 | < 0.0010 | 0.51 | 3.6 | 3.4 | - | < 0.0010 | < 0.0010 | 3.8 | 4.0 | - | |
| Calcium, Total (mg/L) | 525 | - | 518 | 307 | - | 320 | 190 | - | 189 | 84.1 | 76.7 | - | - | - | 94.5 | 97.8 | - | |
| Chloride (mg/L) | 89.3 | - | 84.0 | 170 | - | 175 | 125 | - | 126 | 116 | 80.1 | - | - | - | 61.5 | 61.2 | - | |
| Fluoride (mg/L) | 0.93 | - | 0.79 | < 0.20 | - | 0.30 | < 0.20 | - | 0.26 | 0.55 | 0.59 | - | - | - | 1.0 | 1.0 | - | |
| Sulfate (mg/L) | 2230 | - | 2110 | 874 | - | 880 | 478 | - | 460 | 1260 | 1260 | - | - | - | 1520 | 1590 | - | |
| pH (su) | 6.8 | - | 6.8 | 7.3 | - | 7.1 | 7.3 | - | 7.2 | 8.2 | 8.0 | - | - | - | 8.5 | 8.2 | - | |
| TDS (mg/L) | 2940 | - | 3420 | 1390 | - | 1640 | 1100 | - | 1200 | 1750 | 1270 | - | - | - | 2450 | 2430 | - | |
| Antimony, Total (mg/L) | - | < 0.0010 | - | - | < 0.0010 | - | - | < 0.0010 | - | - | - | - | 0.0099 | 0.010 | - | - | - | |
| Arsenic (mg/L) | 0.0012 | - | 0.0012 | 0.0011 | - | 0.0011 | < 0.0010 | - | < 0.0010 | 0.012 | 0.012 | 0.0084 | - | - | 0.011 | 0.011 | 0.010 | |
| Barium, Total (mg/L) | < 0.0050 | < 0.0050 | < 0.0050 | 0.027 | 0.025 | 0.028 | 0.050 | 0.044 | 0.049 | 0.019 | 0.018 | - | 0.019 | 0.018 | 0.021 | 0.022 | - | |
| Beryllium, Total (mg/L) | - | < 0.0010 | - | - | < 0.0010 | - | - | < 0.0010 | - | - | - | - | < 0.0010 | < 0.0010 | - | - | - | |
| Cadmium, Total (mg/L) | - | < 0.00050 | - | | < 0.00050 | - | - | < 0.00050 | - | - | - | - | < 0.00050 | < 0.00050 | - | - | - | |
| Chromium. Total (mg/L) | - | < 0.0050 | _ | | < 0.0050 | | | < 0.0050 | | _ | _ | - | < 0.0050 | < 0.0050 | - | | | |
| Cobalt. Total (mg/L) | 0.0014 | 0.0022 | 0.0025 | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0010 | - | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0010 | - | |
| Lead. Total (mg/L) | - | < 0.010 | 0.0025 | | < 0.010 | | | < 0.010 | | . 0.0010 | | | < 0.010 | < 0.010 | | | | |
| Fluoride (mg/L) | - | 1.3 | _ | - | 0.63 | - | - | < 0.010 | - | 0.55 | 0.59 | - | < 0.010 | < 0.010 | - | | | |
| Lithium, Total (mg/L) | 0.14 | 0.15 | 0.14 | 0.015 | 0.020 | 0.015 | 0.024 | 0.026 | 0.023 | < 0.010 | < 0.010 | | < 0.010 | < 0.010 | < 0.010 | < 0.010 | - | |
| Molybdenum, Total (mg/L) | 0.017 | 0.022 | 0.021 | 0.0049 | 0.0039 | 0.0042 | 0.0073 | 0.0079 | 0.0060 | 0.35 | 0.35 | - | 0.36 | 0.37 | 0.60 | 0.61 | 0.55 | |
| Selenium Total (mg/L) | 0.017 | < 0.0010 | 0.021 | 0.0045 | < 0.0010 | 0.0042 | 0.0075 | < 0.0010 | 0.0000 | 0.55 | 0.55 | - | < 0.0010 | < 0.0010 | 0.00 | 0.01 | 0.55 | |
| Thallium Total (mg/L) | | < 0.0010 | | | < 0.0010 | | | < 0.0010 | | | | | < 0.0010 | < 0.0010 | | - | | |
| Mercury Total (mg/L) | <0.00020 | < 0.0010 | < 0.00020 | <0.00020 | < 0.0010 | < 0.00020 | 0.0012 | 0.0010 | 0.0015 | <0.00020 | <0.00020 | - | < 0.0010 | < 0.0010 | - 0.00020 | < 0.00020 | - | |
| Radium-226 & 228 Combined (nCi/L) | 0.836 ± 0.813 (1.40) | < 0.00020 0.402 ± 0.811 (1.52) | < 0.00020 1 22 ± 1 27 (2 21) | <0.00020 0.750 ± 0.700 (1.40) | < 0.00020 0.881 ± 0.804 (1.51) | < 0.00020 | 0.0012 | 0.690 ± 0.708 (1.51) | 0.0015 | <0.00020 0.684 ± 0.047 (1.00) | <0.00020 0.000 ± 0.997 (1.49) | - | < 0.00020 | < 0.00020 | < 0.00020 | < 0.00020 | - | |
| Notes: | 0.826 ± 0.813 (1.40) | 0.492 ± 0.811 (1.52) | 1.22 ± 1.27 (2.21) | 0.759 ± 0.799 (1.49) | 0.881 ± 0.804 (1.51) | - | 0.488 ± 0.843 (1.72) | 0.680 ± 0.798 (1.51) | - | 0.684 ± 0.947 (1.99) | 0.998 ± 0.887 (1.48) | - | 0.954 ± 0.955 (1.71) | 0.737 ± 0.884 (1.64) | - | - | - | |
| Bold value: Detection above laboratory reporting | limit or minimum detectable of | oncentration (MDC) . | | | | | | | | | | | | | | | | |
| Radiological results are presented as activity plus | or minus uncertainty with MD | 2. | | | | | | | | | | | | | | | | |
| = Additional constituents provided in the laborator | ry report were utilized for anal | sis at other units and are not a | pplicable to the current FAL gro | ounawater monitoring program; | therefore, those constituents are | not provided in this table. | | | | | | | | | | | | |
| Deq C = degrees Celsius | | | | | | | | | | | | | | | | | | |
| ft btoc = feet below top of casing | | | | | | | | | | | | | | | | | | |
| mg/L = milligrams per liter | | | | | | | | | | | | | | | | | | |
| mV = millivolt | | | | | | | | | | | | | | | | | | |
| NTU = Nephelometric Turbidity Unit | | | | | | | | | | | | | | | | | | |
| ORP = oxidation reduction potential | | | | | | | | | | | | | | | | | | |
| pCi/L = picoCuries per liter | | | | | | | | | | | | | | | | | | |
| su = standard unit | | | | | | | | | | | | | | | | | | |
| TDS = total dissolved solids | | | | | | | | | | | | | | | | | | |
| i oc – top of casing | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

TABLE IIASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPSSEPTEMBER 2023 SAMPLING EVENTJEFFREY ENERGY CENTER FLY ASH LANDFILLST. MARYS, KANSAS

| Well Number | Background Value ¹ | GWPS | | | | | | | | | | | |
|---------------------------------------|---------------------------------------|-------------|--|--|--|--|--|--|--|--|--|--|--|
| | CCR Appendix-IV Arsenic, Total (mg | /L) | | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 0.005 | 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) | 0.0051 | NA | | | | | | | | | | | |
| MW-FAA-3 | | 0.006 | | | | | | | | | | | |
| MW-FAA-4 | | 0.006 | | | | | | | | | | | |
| MW-FAA-6 | | 0.006 | | | | | | | | | | | |
| CCR Appendix-IV Lithium, Total (mg/L) | | | | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 0.171 | NA | | | | | | | | | | | |
| MW-FAA-3 | | 0.171 | | | | | | | | | | | |
| MW-FAA-4 | | 0.171 | | | | | | | | | | | |
| MW-FAA-6 | | 0.171 | | | | | | | | | | | |
| | CCR Appendix-IV Mercury, Total (mg | g/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) | 0.056 | NA | | | | | | | | | | | |
| MW-FAA-3 | | 0.100 | | | | | | | | | | | |
| MW-FAA-4 | | 0.100 | | | | | | | | | | | |
| MW-FAA-6 | 0.844 ² | 0.844 | | | | | | | | | | | |
| CCF | R Appendix-IV Radium-226 & 228 Combin | ned (pCi/L) | | | | | | | | | | | |
| MW-FAA-5 (upgradient) | MW-FAA-5 (upgradient) 2.187 NA | | | | | | | | | | | | |
| MW-FAA-3 | | 5 | | | | | | | | | | | |
| MW-FAA-4 | | 5 | | | | | | | | | | | |
| MW-FAA-6 | | 5 | | | | | | | | | | | |

Notes:

¹ Interwell background data collected from 08/19/2016 through 09/08/2022, 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 IIIASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPSMARCH 2024 SAMPLING EVENTJEFFREY ENERGY CENTER FLY ASH LANDFILLST. 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 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 | | | | | | | | | | |
| CCR | Appendix-IV Radium-226 & 228 Combir | ned (pCi/L) | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 2.190 | NA | | | | | | | | | | |
| MW-FAA-3 | | 5 | | | | | | | | | | |
| MW-FAA-4 | | 5 | | | | | | | | | | |
| MW-FAA-6 | | 5 | | | | | | | | | | |

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 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







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



400 SCALE IN FEET

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



Severgy JANUARY 2025





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 13 - 14 MARCH 2024.

3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 13 - 14 MARCH 2024 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: ESRI, 17 NOVEMBER 2023



400

800

SCALE IN FEET



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

FLY ASH LANDFILL **GROUNDWATER POTENTIOMETRIC** ELEVATION CONTOUR MAP MARCH 13 - 14, 2024







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 19 JUNE, 2024.

3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 19 JUNE, 2024 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: ESRI, 17 NOVEMBER 2023



400

SCALE IN FEET

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

FLY ASH LANDFILL GROUNDWATER POTENTIOMETRIC ELEVATION CONTOUR MAP JUNE 19, 2024

800







MONITORING WELL

PIEZOMETER OBSERVATION ONLY

ESTIMATED GROUNDWATER POTENTIOMETRIC OBSERVAITON 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 4 SEPTEMBER 2024.

3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 4 SEPTEMBER 2024 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: ESRI, 17 NOVEMBER 2023



400 800 SCALE IN FEET

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





ATTACHMENT 1 Statistical Analyses ATTACHMENT 1-1 September 2023 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation



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

TECHNICAL MEMORANDUM

February 6, 2024 File No. 129778-050

| 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 2023 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation Completed January 5, 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 2023** 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 6, 2023**. All laboratory results were received and validated on **January 5, 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

Evergy Kansas Central, Inc. February 6, 2024 Page 2

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 2023** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if a 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.



Evergy Kansas Central, Inc. February 6, 2024 Page 3

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 **September 2022** 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 2023** 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 a SSI. A sample concentration greater than the GWPS is considered to represent a 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. Supporting statistical software output is included in Attachment 2. 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 2023**, no SSLs above GWPS occurred at the JEC FAL.

Attachments:

Table I – Summary of Semiannual Assessment Groundwater Monitoring Statistical Evaluation



TABLE

TABLE ISUMMARY OF SEMIANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATIONSEPTEMBER 2023 SAMPLING EVENTJEFFREY ENERGY CENTER FLY ASH LANDFILLST. MARYS, KANSAS

| | | | | | | | | | | MCL Co | omparison | 4 | | | | | Interwell Analysis | | Intrawell Analysis | | Groundwater Protection Standard | |
|---------------------------------------|---------------------------|------------------------|------------------------|-------------------|-------------|-----------------------|----------------------------|--------------------------------------|--------------------------|---------------------------------------|---|---------------------|--------------------|----------|-------------------|---|--|-----|--|-----|---|-----|
| 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 | Number of Detection Exceedances | Number of Non-Detection Exceedances | Outlier Presence | Outlier Removed | Trend | Distribution Well | September 2023 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 Appen | dix-IV: Arsenic, To | otal (mg/L) | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 13/25 | 48% | 0.001-0.005 | 0.0054 | 0.000001673 | 0.001293 | 0.7901 | 0.010 | mg/L | 0 | 0 | Yes | No | Stable | Non-parametric | <0.0010 | 0.005 | | | | 0.010 | |
| MW-FAA-3 | 3/25 | 88% | 0.001-0.001 | 0.0011 | 7.707E-10 | 0.00002776 | 0.02777 | 0.010 | mg/L | 0 | 0 | Yes | No | NT | Non-parametric | <0.0010 | | No | | | | No |
| MW-FAA-4 | 0/25 | 100% | 0.0005-0.001 | | 0.0000001 | 0.0001 | 0.102 | 0.010 | mg/L | 0 | 0 | NA | NA | NA | NA | <0.0010 | | No | | | | No |
| MW-FAA-6 | 25/25 | 0% | - | 0.01 | 0.000003351 | 0.001831 | 0.2955 | 0.010 | mg/L | 0 | 0 | No | No | Stable | Non-parametric | 0.0085 | | Yes | | | | No |
| CCR Appendix-IV: Barium, Total (mg/L) | | | | | | | | | | | | | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 5/25 | 80% | 0.005-0.01 | 0.013 | 0.000006196 | 0.002489 | 0.3899 | 2 | mg/L | 0 | 0 | No | No | NT | Non-parametric | <0.0050 | 0.013 | | | | 2 | |
| MW-FAA-3 | 25/25 | 0% | - | 0.047 | 0.00002161 | 0.004649 | 0.1458 | 2 | mg/L | 0 | 0 | Yes | No | Stable | Normal | 0.033 | | Yes | | | | No |
| MW-FAA-4 | 25/25 | 0% | - | 0.053 | 0.00000694 | 0.002634 | 0.0535 | 2 | mg/L | 0 | 0 | No | No | Stable | Normal | 0.051 | | Yes | | | | No |
| MW-FAA-6 | 25/25 | 0% | - | 0.067 | 0.0002811 | 0.01677 | 0.3999 | 2 | mg/L | 0 | 0 | No | No | Decrease | Non-parametric | 0.027 | | Yes | | | | No |
| CCR Appendix-IV: Cobalt, Total (mg/L) | | | | | | | | | | | | | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 20/25 | 20% | 0.001-0.005 | 0.0056 | 0.00002043 | 0.001429 | 0.5784 | 0.006 | mg/L | 0 | 0 | No | No | Increase | Normal | 0.0017 | 0.0051 | | | | 0.006 | |
| MW-FAA-3 | 2/25 | 92% | 0.001-0.001 | 0.00058 | 1.56E-08 | 0.0001249 | 0.1296 | 0.006 | mg/L | 0 | 0 | No | No | NT | Non-parametric | <0.0010 | | No | | | | No |
| MW-FAA-4 | 10/25 | 60% | 0.0005-0.001 | 0.0027 | 2.414E-07 | 0.0004913 | 0.3827 | 0.006 | mg/L | 0 | 0 | No | No | Increase | NA | <0.0010 | | No | | | | No |
| MW-FAA-6 | 24/25 | 4% | 0.001-0.001 | 0.0021 | 1.025E-07 | 0.0003201 | 0.2215 | 0.006 | mg/L | 0 | 0 | No | No | Stable | Normal | 0.0012 | | No | | | | No |
| | | | | | | | | | - | CCR Appen | dix-IV: Lithium, To | otal (mg/L) | | - | | - - | | | | | | |
| MW-FAA-5 (upgradient) | 25/25 | 0% | - | 0.16 | 0.0007519 | 0.02742 | 0.2178 | 0.040 | mg/L | 25 | 0 | No | No | Stable | Normal | 0.14 | 0.171 | | | | 0.171 | |
| MW-FAA-3 | 21/25 | 16% | 0.01-0.03 | 0.023 | 0.00001844 | 0.004295 | 0.2704 | 0.040 | mg/L | 0 | 0 | Yes | No | Stable | Normal | 0.014 | | No | | | | No |
| MW-FAA-4 | 22/25 | 12% | 0.01-0.03 | 0.024 | 0.00001924 | 0.004387 | 0.2426 | 0.040 | mg/L | 0 | 0 | No | No | Increase | Normal | 0.020 | | No | | | | No |
| MW-FAA-6 | 18/25 | 28% | 0.01-0.03 | 0.016 | 0.00001894 | 0.004352 | 0.3317 | 0.040 | mg/L | 0 | 0 | Yes | No | Stable | Non-parametric | 0.010 | | No | | | | No |
| | | | | | | | | | | CCR Append | lix-IV: Mercury, To | otal (mg/L) | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 0/21 | 100% | 8.3E-05-0.0002 | | 6.519E-10 | 0.00002553 | 0.1313 | 0.002 | mg/L | 0 | 0 | NA | NA | NA | NA | <0.00020 | 0.0002 | | | | 0.002 | |
| MW-FAA-3 | 0/17 | 100% | 2.4E-05-0.0002 | | 1.822E-09 | 0.00004269 | 0.2251 | 0.002 | mg/L | 0 | 0 | NA | NA | NA | NA | <0.00020 | | No | | | | No |
| MW-FAA-4 | 3/17 | 82% | 0.0002-0.0002 | 0.00046 | 4.347E-09 | 0.00006593 | 0.2957 | 0.002 | mg/L | 0 | 0 | No | No | NT | Non-parametric | 0.00046 | | Yes | | | | No |
| MW-FAA-6 | 0/17 | 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 (upgradient) | 25/25 | 0% | - | 0.067 | 0.0001891 | 0.01375 | 0.464 | 0.100 | mg/L | 0 | 0 | No | No | Decrease | Normal | 0.019 | 0.056 | | | | 0.100 | |
| MW-FAA-3 | 25/25 | 0% | - | 0.014 | 0.000006503 | 0.00255 | 0.2837 | 0.100 | mg/L | 0 | 0 | No | No | Decrease | Normal | 0.0064 | | No | | | | No |
| MW-FAA-4 | 25/25 | 0% | - | 0.011 | 0.00000703 | 0.002651 | 0.4593 | 0.100 | mg/L | 0 | 0 | No | No | Increase | Increasing | 0.0072 | | No | | | | No |
| MW-FAA-6 | 25/25 | 0% | - | 0.59 | 0.0188 | 0.1371 | 0.358 | 0.100 | mg/L | 25 | 0 | No | No | Decrease | Normal | 0.29 | | Yes | 0.844 | Ν | 0.844 | No |
| | | | | | | | | | | CCR Appendix | -IV: Radium-226 | & 228 (pCi/L) | | | | | | | | | | |
| MW-FAA-5 (upgradient) | 21/25 | 16% | 0.374-1.79 | 2.43 | 0.2742 | 0.5236 | 0.4027 | 5 | pCi/L | 0 | 0 | No | No | Stable | Normal | 1.29 | 2.187 | | | | 5 | |
| MW-FAA-3 | 17/25 | 32% | 0.246-0.857 | 1.792 | 0.1909 | 0.437 | 0.6689 | 5 | pCi/L | 0 | 0 | No | No | Stable | Normal | 1.27 | | No | | | | No |
| MW-FAA-4 | 16/25 | 36% | 0.00551-1.07 | 1.54 | 0.1492 | 0.3862 | 0.5517 | 5 | pCi/L | 0 | 0 | No | No | Stable | Normal | 0.701 | | No | | | | No |
| MW-FAA-6 | 16/25 | 36% | 0.0926-0.58 | 1.43 | 0.1728 | 0.4157 | 0.7518 | 5 | pCi/L | 0 | 0 | No | No | Stable | Normal | 0.0705 | | No | | | | No |
| | | | | | | | | | | | | | | | | | | | | | | |

Notes:

 $^{\rm 1}\,$ Based on background data collected from 08/19/2016 through 09/08/2022, 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 2024 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation



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

TECHNICAL MEMORANDUM

August 14, 2024 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: | March 2024 Semiannual Groundwater Assessment Monitoring Data Statistical Evaluation Completed July 29, 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 **March 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 **March 13 – 14, 2024**. All laboratory results were received and validated on **July 17, 2024**. Well MW-FAA-6 was resampled on **May 14, 2024** to confirm the arsenic concentration collected on March 14, 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

Evergy Kansas Central, Inc. August 14, 2024 Page 2

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 **March 2024** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if a 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.



Evergy Kansas Central, Inc. August 14, 2024 Page 3

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 **March 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 a SSI. A sample concentration greater than the GWPS is considered to represent a 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. Supporting statistical software output is included in Attachment 2. 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 March 2024**, **no SSLs above GWPS occurred at the JEC FAL.**

Attachments:

Table I – Summary of Semiannual Assessment Groundwater Monitoring Statistical Evaluation



TABLE

TABLE ISUMMARY OF SEMIANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATIONMARCH 2024 SAMPLING EVENTJEFFREY ENERGY CENTER FLY ASH LANDFILLST. MARYS, KANSAS

| | | | | | | | | | | MCL Co | mparison | | | | | | Interwell Analysis | | Intrawell Analysis | | Groundwater Protection Standard | |
|---------------------------------------|---------------------------|------------------------|------------------------|-------------------|------------|-----------------------|----------------------------|--------------------------------------|--------------------------|---------------------------------------|---|---------------------|--------------------|----------|-------------------|---------------------------------------|--|-----|--|-----|--|-----|
| 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 | Number of Detection Exceedances | Number of Non- Detection Exceedances | Outlier Presence | Outlier Removed | Trend | Distribution Well | March 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 Appe | ndix-IV: Arsen | ic, Total (mg | ;/L) | | | | | | | | | |
| MW-FAA-5 | 14/26 | 46% | 0.001-0.005 | 0.0054 | 1.613E-06 | 0.00127 | 0.784 | 0.01 | mg/L | 0 | 0 | Yes | No | Stable | Non-parametric | 0.0012 | 0.0054 | | | | 0.010 | |
| MW-FAA-3 | 4/26 | 85% | 0.001-0.001 | 0.0011 | 1.128E-09 | 0.00003358 | 0.03346 | 0.01 | mg/L | 0 | 0 | Yes | No | NT | Non-parametric | 0.0011 | | No | | | | No |
| MW-FAA-4 | 0/26 | 100% | 0.0005-0.001 | | 9.615E-09 | 0.00009806 | 0.09998 | 0.01 | mg/L | 0 | 0 | NA | NA | NA | NA | < 0.0010 | | No | | | | No |
| MW-FAA-6 | 26/26 | 0% | - | 0.01 | 3.404E-06 | 0.001845 | 0.2938 | 0.01 | mg/L | 0 | 0 | Yes | No | Stable | Non-parametric | 0.0084 | | Yes | | | | No |
| CCR Appendix-IV: Barium, Total (mg/L) | | | | | | | | | | | | | | | | | | | | | | |
| MW-FAA-5 | 5/26 | 81% | 0.005-0.01 | 0.013 | 6.022E-06 | 0.002454 | 0.3876 | 2 | mg/L | 0 | 0 | Yes | No | NT | Non-parametric | < 0.0050 | 0.013 | | | | 2 | |
| MW-FAA-3 | 26/26 | 0% | - | 0.047 | 0.00002166 | 0.004654 | 0.1469 | 2 | mg/L | 0 | 0 | Yes | No | Stable | Normal | 0.027 | | Yes | | | | No |
| MW-FAA-4 | 26/26 | 0% | - | 0.053 | 6.685E-06 | 0.002585 | 0.05248 | 2 | mg/L | 0 | 0 | No | No | Stable | Normal | 0.050 | | Yes | | | | No |
| MW-FAA-6 | 26/26 | 0% | - | 0.067 | 0.00029 | 0.01703 | 0.415 | 2 | mg/L | 0 | 0 | Yes | No | Decrease | Non-parametric | 0.019 | | Yes | | | | No |
| CCR Appendix-IV: Cobalt, Total (mg/L) | | | | | | | | | | | | | | | | | | | | | | |
| MW-FAA-5 | 21/26 | 19% | 0.001-0.005 | 0.0056 | 2.005E-06 | 0.001416 | 0.5828 | 0.006 | mg/L | 0 | 0 | No | No | Stable | Normal | 0.0014 | 0.0049 | | | | 0.006 | |
| MW-FAA-3 | 2/26 | 92% | 0.001-0.001 | 0.00058 | 1.503E-08 | 0.0001226 | 0.127 | 0.006 | mg/L | 0 | 0 | Yes | No | NT | Non-parametric | < 0.0010 | | No | | | | No |
| MW-FAA-4 | 10/26 | 62% | 0.0005-0.001 | 0.0027 | 2.348E-07 | 0.0004846 | 0.3807 | 0.006 | mg/L | 0 | 0 | Yes | No | Increase | NA | < 0.0010 | | No | | | | No |
| MW-FAA-6 | 24/26 | 8% | 0.001-0.001 | 0.0021 | 1.06E-07 | 0.0003256 | 0.2279 | 0.006 | mg/L | 0 | 0 | No | No | Stable | Normal | < 0.0010 | | No | | | | No |
| | | | I | 1 | | | T | | | CCR Appe | ndix-IV: Lithiu | m, Total (mg | g/L) | T | | | T | | - | | | |
| MW-FAA-5 | 26/26 | 0% | - | 0.16 | 0.0007295 | 0.02701 | 0.2136 | 0.04 | mg/L | 26 | 0 | No | No | Stable | Normal | 0.14 | 0.173 | | | | 0.173 | |
| MW-FAA-3 | 22/26 | 15% | 0.01-0.03 | 0.023 | 0.00001774 | 0.004211 | 0.2658 | 0.04 | mg/L | 0 | 0 | Yes | No | Stable | Normal | 0.015 | | No | | | | No |
| MW-FAA-4 | 23/26 | 12% | 0.01-0.03 | 0.024 | 0.00001982 | 0.004452 | 0.2432 | 0.04 | mg/L | 0 | 0 | No | No | Increase | Normal | 0.024 | | No | | | | No |
| MW-FAA-6 | 18/26 | 31% | 0.01-0.03 | 0.016 | 0.00001856 | 0.004308 | 0.3314 | 0.04 | mg/L | 0 | 0 | Yes | No | Stable | Non-parametric | < 0.010 | | No | | | | No |
| | | I | I | | | I | T | 1 | | CCR Apper | ndix-IV: Mercu | ry, Total (m | g/L) | | T | I | 1 | | | | | |
| MW-FAA-5 | 0/22 | 100% | 8.3E-05-0.0002 | | 6.222E-10 | 0.00002494 | 0.1281 | 0.002 | mg/L | 0 | 0 | NA | NA | NA | NA | < 0.00020 | 0.0002 | | | | 0.002 | |
| MW-FAA-3 | 0/18 | 100% | 2.4E-05-0.0002 | | 1.721E-09 | 0.00004148 | 0.2181 | 0.002 | mg/L | 0 | 0 | NA | NA | NA | NA | < 0.00020 | | No | | | | No |
| MW-FAA-4 | 4/18 | 78% | 0.0002-0.0002 | 0.0012 | 5.713E-08 | 0.000239 | 0.8622 | 0.002 | mg/L | 0 | 0 | No | No | NT | Non-parametric | 0.0012 | | Yes | | | | No |
| MW-FAA-6 | 0/18 | 100% | 0.0002-0.0002 | | 0 | 0 | 0 | 0.002 | mg/L | 0 | 0 | NA | NA | NA | NA | < 0.00020 | | No | | | | No |
| | 0.0100 | | 1 | | | | | | | CCR Appendi | x-IV: Molybde | num, Total | (mg/L) | - | Γ | | | | | | | |
| MW-FAA-5 | 26/26 | 0% | - | 0.067 | 0.0001877 | 0.0137 | 0.4699 | 0.1 | mg/L | 0 | 0 | No | No | Decrease | Non-parametric | 0.017 | 0.067 | | | | 0.100 | |
| MW-FAA-3 | 26/26 | 0% | - | 0.014 | 6.885E-06 | 0.002624 | 0.2971 | 0.1 | mg/L | 0 | 0 | No | No | Decrease | Normal | 0.0049 | | No | | | | No |
| MW-FAA-4 | 26/26 | 0% | - | 0.011 | 6.838E-06 | 0.002615 | 0.4485 | 0.1 | mg/L | 0 | 0 | No | No | Increase | Normal | 0.0073 | - | No | | | | No |
| MW-FAA-6 | 26/26 | 0% | - | 0.59 | 0.01809 | 0.1345 | 0.3523 | 0.1 | mg/L | 26 | 0 | No | No | Decrease | Normal | 0.35 | | Yes | 0.844 | No | 0.844 | No |
| | 20/25 | 2224 | 0.074.4 | | 0.0746 | 0.5044 | 0.4067 | | c: // | CCR Append | ix-IV: Radium- | 226 & 228 (| pCi/L) | <u> </u> | | 0.000 | 2.400 | | | | - | |
| MW-FAA-5 | 20/26 | 23% | 0.374-1.79 | 2.43 | 0.2/19 | 0.5214 | 0.4067 | 5 | pCi/L | 0 | 0 | NO | NO | Stable | Normal | 0.826 | 2.190 | | | | 5 | |
| MW-FAA-3 | 14/26 | 46% | 0.246-1.27 | 1./92 | 0.1837 | 0.4286 | 0.6521 | 5 | pCi/L | 0 | 0 | No | NO | Stable | Normal | 0.759 | | No | | | | No |
| MW-FAA-4 | 14/26 | 46% | 0.00551-1.07 | 1.54 | 0.1449 | 0.3807 | 0.5502 | 5 | pCi/L | 0 | 0 | No | NO | Stable | Normal | 0.488 | | No | | | | No |
| MW-FAA-6 | 14/26 | 46% | 0.0705-0.58 | 1.43 | 0.1665 | 0.4081 | 0./314 | 5 | pCi/L | 0 | 0 | No | No | Stable | Normal | 0.684 | | No | | | | 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 2 Laboratory Analytical Reports
ATTACHMENT 2-1 March 2024 Semiannual Sampling Event Laboratory Analytical Report



Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

April 26, 2024

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

RE: Project: JEC FAL CCR-Revised Report Pace Project No.: 60449052

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2024. 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 include mercury data. Chloride data was corrected for sample 60449052003 to report appropriate dilution.

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

Sincerely,

Alice Spiller

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

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Andrew Watson, Haley & Aldrich





CERTIFICATIONS

Project: JEC FAL CCR-Revised Report Pace Project No.: 60449052

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Inorganic Drinking Water Certification 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



SAMPLE SUMMARY

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 60449052001 | FAA-3-031424 | Water | 03/14/24 09:20 | 03/14/24 17:30 |
| 60449052002 | FAA-4-031324 | Water | 03/13/24 16:30 | 03/14/24 17:30 |
| 60449052003 | FAA-6-031424 | Water | 03/14/24 10:05 | 03/14/24 17:30 |
| 60449052004 | JEC-FAA-DUP-031424 | Water | 03/14/24 10:05 | 03/14/24 17:30 |



SAMPLE ANALYTE COUNT

Project:JEC FAL CCR-Revised ReportPace Project No.:60449052

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|-------------|----------|----------------------|------------|
| 60449052001 | FAA-3-031424 | EPA 200.7 | JXD | 3 | PASI-K |
| | | EPA 6010 | JXD | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | ACLC | 1 | PASI-K |
| | | SM 2540C | KVI | 1 | PASI-K |
| | | SM 4500-H+B | SR1 | 1 | PASI-K |
| | | EPA 300.0 | PL | 3 | PASI-K |
| 60449052002 | FAA-4-031324 | EPA 200.7 | JXD | 3 | PASI-K |
| | | EPA 6010 | JXD | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | ACLC | 1 | PASI-K |
| | | SM 2540C | KVI | 1 | PASI-K |
| | | SM 4500-H+B | SR1 | 1 | PASI-K |
| | | EPA 300.0 | PL | 3 | PASI-K |
| 60449052003 | FAA-6-031424 | EPA 200.7 | JXD | 3 | PASI-K |
| | | EPA 6010 | JXD | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | ACLC | 1 | PASI-K |
| | | SM 2540C | KVI | 1 | PASI-K |
| | | SM 4500-H+B | SR1 | 1 | PASI-K |
| | | EPA 300.0 | PL, RKA | 3 | PASI-K |
| 60449052004 | JEC-FAA-DUP-031424 | EPA 200.7 | JXD | 3 | PASI-K |
| | | EPA 6010 | JXD | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | ACLC | 1 | PASI-K |
| | | SM 2540C | KVI | 1 | PASI-K |
| | | SM 4500-H+B | SR1 | 1 | PASI-K |
| | | EPA 300.0 | PL, RKA | 3 | PASI-K |
| | | | | | |

PASI-K = Pace Analytical Services - Kansas City



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

Method: EPA 200.7

Description:200.7 Metals, TotalClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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: 886918

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60448981001,60449055001

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

- MS (Lab ID: 3510970)
 - Calcium

Additional Comments:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

Method: EPA 6010

Description:6010 MET ICPClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

Method: EPA 245.1

Description:245.1 MercuryClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

Method: SM 2540C

Description:2540C Total Dissolved SolidsClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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.

QC Batch: 887323

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

- DUP (Lab ID: 3512246)
 - Total Dissolved Solids

Additional Comments:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

| Method: | SM | 4500-H+B |
|---------|----|------------|
| mounou. | 0 | 4000 111 D |

Description:4500H+ pH, ElectrometricClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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-3-031424 (Lab ID: 60449052001)
- FAA-4-031324 (Lab ID: 60449052002)
- FAA-6-031424 (Lab ID: 60449052003)
- JEC-FAA-DUP-031424 (Lab ID: 60449052004)

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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: 887337

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60449052001,60449065002

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 - MS (Lab ID: 3512317) • Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 887337

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

• MS (Lab ID: 3512317)

- Sulfate
- MSD (Lab ID: 3512318) • Sulfate

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



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

| Sample: FAA-3-031424 | Lab ID: 60449052001 | | Collected: 03/14/2 | 4 09:20 | 0 Received: 03/14/24 17:30 Matrix: Wate | | | | | | | | |
|-------------------------------|---------------------|--|----------------------|---------|---|----------------|------------|------|--|--|--|--|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | | | | | |
| 200.7 Metals, Total | Analytical Me | thod: EPA 20 | 00.7 Preparation Met | hod: El | PA 200.7 | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | |
| Barium, Total Recoverable | 0.027 | mg/L | 0.0050 | 1 | 03/18/24 09:53 | 03/21/24 15:57 | 7440-39-3 | | | | | | |
| Boron, Total Recoverable | 0.51 | mg/L | 0.10 | 1 | 03/18/24 09:53 | 03/21/24 15:57 | 7440-42-8 | | | | | | |
| Calcium, Iotal Recoverable | 307 | mg/L | 0.20 | 1 | 03/18/24 09:53 | 03/21/24 15:57 | 7440-70-2 | | | | | | |
| 6010 MET ICP | Analytical Me | thod: EPA 60 | 010 Preparation Meth | nod: EF | PA 3010 | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | |
| Lithium, Total Recoverable | 0.015 | mg/L | 0.010 | 1 | 03/18/24 09:53 | 03/21/24 17:04 | 7439-93-2 | | | | | | |
| 200.8 MET ICPMS | Analytical Me | thod: EPA 20 | 0.8 Preparation Met | hod: El | PA 200.8 | | | | | | | | |
| | Pace Analytic | Pace Analytical Services - Kansas City | | | | | | | | | | | |
| Arsenic, Total Recoverable | 0.0011 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/27/24 13:24 | 7440-38-2 | | | | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/27/24 13:24 | 7440-48-4 | | | | | | |
| Molybdenum, Total Recoverable | 0.0049 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/27/24 13:24 | 7439-98-7 | | | | | | |
| 245.1 Mercury | Analytical Me | thod: EPA 24 | 15.1 Preparation Met | hod: El | PA 245.1 | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 04/05/24 10:03 | 04/08/24 14:59 | 7439-97-6 | | | | | | |
| 2540C Total Dissolved Solids | Analytical Me | thod: SM 25 | 40C | | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | |
| Total Dissolved Solids | 1390 | mg/L | 40.0 | 1 | | 03/21/24 11:36 | | | | | | | |
| 4500H+ pH, Electrometric | Analytical Me | thod: SM 45 | 00-H+B | | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | |
| pH at 25 Degrees C | 7.3 | Std. Units | s 0.10 | 1 | | 03/20/24 11:41 | | H6 | | | | | |
| 300.0 IC Anions 28 Days | Analytical Me | thod: EPA 30 | 0.0 | | | | | | | | | | |
| - | Pace Analytic | al Services - | Kansas City | | | | | | | | | | |
| Chloride | 170 | ma/L | 50.0 | 50 | | 03/21/24 09:47 | 16887-00-6 | | | | | | |
| Fluoride | <0.20 | mg/L | 0.20 | 1 | | 03/21/24 09:11 | 16984-48-8 | | | | | | |
| Sulfate | 874 | mg/L | 50.0 | 50 | | 03/21/24 09:47 | 14808-79-8 | M1 | | | | | |



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

| Sample: FAA-4-031324 | Lab ID: 60449052002 | | Collected: 03/13/2 | 4 16:3 | 0 Received: 03 | 8/14/24 17:30 M | latrix: Water | | | | | |
|-------------------------------|---------------------|--|----------------------|---------|----------------|-----------------|---------------|------|--|--|--|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | | | | |
| 200.7 Metals, Total | Analytical Me | thod: EPA 20 | 0.7 Preparation Met | hod: E | PA 200.7 | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Barium, Total Recoverable | 0.050 | mg/L | 0.0050 | 1 | 03/18/24 09:53 | 03/21/24 16:06 | 7440-39-3 | | | | | |
| Boron, Total Recoverable | 0.59 | mg/L | 0.10 | 1 | 03/18/24 09:53 | 03/21/24 16:06 | 7440-42-8 | | | | | |
| Calcium, Total Recoverable | 190 | mg/L | 0.20 | 1 | 03/18/24 09:53 | 03/21/24 16:06 | 7440-70-2 | | | | | |
| 6010 MET ICP | Analytical Me | thod: EPA 60 | 010 Preparation Meth | nod: EF | PA 3010 | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Lithium, Total Recoverable | 0.024 | mg/L | 0.010 | 1 | 03/18/24 09:53 | 03/21/24 17:14 | 7439-93-2 | | | | | |
| 200.8 MET ICPMS | Analytical Me | thod: EPA 20 | 0.8 Preparation Met | hod: E | PA 200.8 | | | | | | | |
| | Pace Analytic | Pace Analytical Services - Kansas City | | | | | | | | | | |
| Arsenic, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/27/24 13:27 | 7440-38-2 | | | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/27/24 13:27 | 7440-48-4 | | | | | |
| Molybdenum, Total Recoverable | 0.0073 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/27/24 13:27 | 7439-98-7 | | | | | |
| 245.1 Mercury | Analytical Me | thod: EPA 24 | 5.1 Preparation Met | hod: E | PA 245.1 | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Mercury | 1.2 | ug/L | 0.20 | 1 | 04/05/24 10:03 | 04/08/24 15:06 | 7439-97-6 | | | | | |
| 2540C Total Dissolved Solids | Analytical Me | thod: SM 254 | 40C | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Total Dissolved Solids | 1100 | mg/L | 20.0 | 1 | | 03/20/24 10:35 | | | | | | |
| 4500H+ pH, Electrometric | Analytical Me | thod: SM 450 | 00-H+B | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| pH at 25 Degrees C | 7.3 | Std. Units | 0.10 | 1 | | 03/19/24 10:28 | | H6 | | | | |
| 300.0 IC Anions 28 Days | Analytical Me | thod: EPA 30 | 0.0 | | | | | | | | | |
| - | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Chloride | 125 | mg/L | 50.0 | 50 | | 03/21/24 10:37 | 16887-00-6 | | | | | |
| Fluoride | <0.20 | mg/L | 0.20 | 1 | | 03/21/24 10:24 | 16984-48-8 | | | | | |
| Sulfate | 478 | mg/L | 50.0 | 50 | | 03/21/24 10:37 | 14808-79-8 | | | | | |



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

| Sample: FAA-6-031424 | Lab ID: 60449052003 | | Collected: 03/14/24 10:05 | | 5 Received: 03 | /14/24 17:30 N | Matrix: Water | | | | | | | |
|-------------------------------|---------------------|--|---------------------------|---------|----------------|----------------|---------------|------|--|--|--|--|--|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | | | | | | |
| 200.7 Metals, Total | Analytical Met | hod: EPA 20 | 0.7 Preparation Met | hod: El | PA 200.7 | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | | |
| Barium, Total Recoverable | 0.019 | mg/L | 0.0050 | 1 | 04/18/24 08:04 | 04/18/24 13:46 | 7440-39-3 | | | | | | | |
| Boron, Total Recoverable | 3.6 | mg/L | 0.10 | 1 | 04/18/24 08:04 | 04/18/24 13:46 | 7440-42-8 | | | | | | | |
| Calcium, Total Recoverable | 84.1 | mg/L | 0.20 | 1 | 04/18/24 08:04 | 04/18/24 13:46 | 7440-70-2 | | | | | | | |
| 6010 MET ICP | Analytical Met | hod: EPA 60 | 10 Preparation Meth | nod: EF | PA 3010 | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | | |
| Lithium, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 03/18/24 09:53 | 03/21/24 17:16 | 7439-93-2 | | | | | | | |
| 200.8 MET ICPMS | Analytical Met | hod: EPA 20 | 0.8 Preparation Met | hod: El | PA 200.8 | | | | | | | | | |
| | Pace Analytic | Pace Analytical Services - Kansas City | | | | | | | | | | | | |
| Arsenic, Total Recoverable | 0.012 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 14:18 | 7440-38-2 | | | | | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 14:18 | 7440-48-4 | | | | | | | |
| Molybdenum, Total Recoverable | 0.35 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 14:18 | 7439-98-7 | | | | | | | |
| 245.1 Mercury | Analytical Met | hod: EPA 24 | 5.1 Preparation Met | hod: El | PA 245.1 | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 04/05/24 10:03 | 04/08/24 15:08 | 7439-97-6 | | | | | | | |
| 2540C Total Dissolved Solids | Analytical Met | hod: SM 254 | 40C | | | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | | | |
| Total Dissolved Solids | 1750 | mg/L | 40.0 | 1 | | 03/21/24 11:36 | | | | | | | | |
| 4500H+ pH, Electrometric | Analytical Met | hod: SM 450 | 00-H+B | | | | | | | | | | | |
| • | Pace Analytic | al Services - | Kansas City | | | | | | | | | | | |
| pH at 25 Degrees C | 8.2 | Std. Units | 0.10 | 1 | | 03/20/24 11:48 | | H6 | | | | | | |
| pH at 25 Degrees C | 8.0 | Std. Units | 0.10 | 1 | | 04/23/24 13:07 | | H6 | | | | | | |
| 300.0 IC Anions 28 Days | Analytical Met | hod: EPA 30 | 0.0 | | | | | | | | | | | |
| - | Pace Analytic | al Services - | Kansas City | | | | | | | | | | | |
| Chloride | 116 | mg/L | 100 | 100 | | 03/22/24 18:17 | 16887-00-6 | | | | | | | |
| Fluoride | 0.55 | mg/L | 0.20 | 1 | | 03/21/24 11:14 | 16984-48-8 | | | | | | | |
| Sulfate | 1260 | mg/L | 100 | 100 | | 03/22/24 18:17 | 14808-79-8 | | | | | | | |



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

| Sample: JEC-FAA-DUP-031424 | Lab ID: 60449052004 | | Collected: 03 | 3/14/24 10 | :05 Received: 03 | 8/14/24 17:30 N | latrix: Water | |
|-------------------------------|---------------------|---------------|------------------|------------|------------------|-----------------|---------------|------|
| Parameters | Results | Units | Report Li | mit DF | Prepared | Analyzed | CAS No. | Qual |
| 200.7 Metals, Total | Analytical Met | thod: EPA 20 | 0.7 Preparation | n Method: | EPA 200.7 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Barium, Total Recoverable | 0.018 | mg/L | 0.0 | 050 1 | 03/18/24 09:53 | 03/21/24 16:11 | 7440-39-3 | |
| Boron, Total Recoverable | 3.4 | mg/L | (| 0.10 1 | 03/18/24 09:53 | 03/21/24 16:11 | 7440-42-8 | |
| Calcium, Total Recoverable | 76.7 | mg/L | (| 0.20 1 | 03/18/24 09:53 | 03/21/24 16:11 | 7440-70-2 | |
| 6010 MET ICP | Analytical Met | thod: EPA 60 | 010 Preparation | Method: | EPA 3010 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Lithium, Total Recoverable | <0.010 | mg/L | 0. | 010 1 | 03/18/24 09:53 | 03/21/24 17:18 | 7439-93-2 | |
| 200.8 MET ICPMS | Analytical Met | thod: EPA 20 | 0.8 Preparation | n Method: | EPA 200.8 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Arsenic, Total Recoverable | 0.012 | mg/L | 0.0 | 010 1 | 03/18/24 09:53 | 03/27/24 13:37 | 7440-38-2 | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0 | 010 1 | 03/18/24 09:53 | 03/27/24 13:37 | 7440-48-4 | |
| Molybdenum, Total Recoverable | 0.35 | mg/L | 0.0 | 010 1 | 03/18/24 09:53 | 03/27/24 13:37 | 7439-98-7 | |
| 245.1 Mercury | Analytical Met | thod: EPA 24 | 15.1 Preparation | n Method: | EPA 245.1 | | | |
| - | Pace Analytic | al Services - | Kansas City | | | | | |
| Mercury | <0.20 | ug/L | (| 0.20 1 | 04/05/24 10:03 | 04/08/24 15:11 | 7439-97-6 | |
| 2540C Total Dissolved Solids | Analytical Met | thod: SM 25 | 40C | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Total Dissolved Solids | 1270 | mg/L | 6 | 6.7 1 | | 03/21/24 11:36 | | |
| 4500H+ pH, Electrometric | Analytical Met | thod: SM 45 | 00-H+B | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| pH at 25 Degrees C | 8.0 | Std. Units | s (| 0.10 1 | | 03/20/24 11:50 | | H6 |
| 300.0 IC Anions 28 Days | Analytical Met | thod: EPA 30 | 0.0 | | | | | |
| - | Pace Analytic | al Services - | Kansas City | | | | | |
| Chloride | 80.1 | mg/L | 2 | 20.0 20 | | 03/22/24 00:11 | 16887-00-6 | |
| Fluoride | 0.59 | mg/L | (| 0.20 1 | | 03/23/24 00:43 | 16984-48-8 | |
| Sulfate | 1260 | ma/L | | 200 200 |) | 03/23/24 00:55 | 14808-79-8 | |



| Project: | JEC FAL CCR-Rev | ised Report | | | | | | | | | | |
|--------------------|------------------|-----------------|-------------|------------------------|-----------|------------|-------------|------------|------------|-----|-----|------|
| Pace Project No .: | 60449052 | | | | | | | | | | | |
| QC Batch: | 889416 | | Anal | ysis Metho | :bc | EPA 245.1 | | | | | | |
| QC Batch Method: | EPA 245.1 | | Anal | ysis Desc | ription: | 245.1 Merc | ury | | | | | |
| | | | Labo | oratory: | | Pace Analy | ical Servic | es - Kansa | s City | | | |
| Associated Lab San | nples: 604490520 | 001, 6044905200 | 2, 604490 | 52003, 60 [,] | 449052004 | | | | | | | |
| METHOD BLANK: | 3520316 | | | Matrix: V | Vater | | | | | | | |
| Associated Lab San | nples: 604490520 | 01, 6044905200 | 2, 604490 | 52003, 60 [,] | 449052004 | | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | |
| Paran | neter | Units | Res | sult | Limit | Anal | yzed | Qualifier | s | | | |
| Mercury | | ug/L | | <0.20 | 0.2 | 20 04/08/2 | 4 14:55 | | | | | |
| | | | | | | | | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 3520317 | | | | | | | | | | |
| | | | Spike | L | CS | LCS | % R | ec | | | | |
| Paran | neter | Units | Conc. | Re | esult | % Rec | Lim | its | Qualifiers | | | |
| Mercury | | ug/L | | 5 | 5.0 | 10 | 0 | 85-115 | | | | |
| | | | | | | | | | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUP | LICATE: 3520 | 318 | | 352031 | 9 | | | | | | |
| | | 60440052001 | MS Spiko | MSD Spiko | MS | MSD | MS | MSD | % Poc | | Max | |
| Parameter | . Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Mercury | ug/L | <0.20 | 5 | 5 | 4.8 | 4.6 | 97 | 92 | 70-130 | 5 | 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.



| Project: | JEC FAL CCR-Re | vised Report | | | | | | | | | | |
|--------------------|-----------------|-------------------------|----------------|-----------------------|--------------|---------------|--|--------------|-----------------|--------|------------|------|
| Pace Project No.: | 60449052 | · | | | | | | | | | | |
| QC Batch: | 886918 | | Analy | ysis Metho | d: E | PA 200.7 | | | | | | |
| QC Batch Method: | EPA 200.7 | | Anal | Analysis Description: | | | s, Total | | | | | |
| | | | Labo | Laboratory: | | | Pace Analytical Services - Kansas City | | | | | |
| Associated Lab Sar | mples: 60449052 | 2001, 6044905200 | 2, 6044905 | 52004 | | - | | | - | | | |
| METHOD BLANK: | 3510966 | | | Matrix: W | /ater | | | | | | | |
| Associated Lab Sar | mples: 60449052 | 2001, 6044905200 | 2, 6044905 | 52004 | | | | | | | | |
| | | | Blai | nk | Reporting | | | | | | | |
| Para | neter | Units | Res | ult | Limit | Analy | zed | Qualifiers | 6 | | | |
| Barium | | mg/L | < | 0.0050 | 0.0050 | 03/21/24 | 15:39 | | | | | |
| Boron | | mg/L | | <0.10 | 0.10 | 03/21/24 | 15:39 | | | | | |
| Calcium | | mg/L | | <0.20 | 0.20 | 03/21/24 | 15:39 | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3510967 | | | | | | | | | | |
| | | | Spike | LC | S | LCS | % Re | ec | | | | |
| Para | neter | Units | Conc. | Res | sult | % Rec | Limit | ts (| Qualifiers | _ | | |
| Barium | | mg/L | | 1 | 0.99 | 99 | 9 8 | 35-115 | | | | |
| Boron | | mg/L | | 1 | 0.95 | 95 | 5 8 | 35-115 | | | | |
| Calcium | | mg/L | 1 | 0 | 9.9 | 99 |) 8 | 35-115 | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE DUF | PLICATE: 3510 | 968 | | 3510969 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| Paramete | r Units | 60448981001 s Result | Spike Conc. | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Barium | ma/l | 0.059 | 1 | 1 | 11 | 11 | 101 | 100 | 70-130 | 0 | 20 | |
| Boron | mg/L | 0.64 | 1 | 1 | 1.6 | 1.6 | 98 | 97 | 70-130 | 0 | 20 | |
| Calcium | mg/L | . 122 | 10 | 10 | 131 | 130 | 91 | 83 | 70-130 | 1 | 20 | |
| MATRIX SPIKE SA | MPLE: | 3510970 | | | | | | | | | | |
| | | | 60449 | 055001 | Spike | MS | | MS | % Rec | | | |
| Para | neter | Units | Re | esult | Conc. | Result | % | Rec | Limits | | Qualif | iers |
| Barium | | mg/L | | <0.0050 | 1 | | 1.0 | 101 | 70- | -130 | | |
| Boron | | mg/L | | 1.7 | 1 | | 2.7 | 104 | 70· | -130 | | |
| Calcium | | mg/L | | 525 | 10 | ! | 556 | 308 | 70 | -130 M | 1 | |

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REPORT OF LABORATORY ANALYSIS

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| Project: | JEC FAL CCR-Re | evised Report | | | | | | | | | | | |
|--------------------|-----------------|---------------|----------|-----------|----------|-----------|------------|--------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 60449052 | | | | | | | | | | | | |
| QC Batch: | 891020 | | An | alysis M | ethod | I: E | EPA 200.7 | | | | | | |
| QC Batch Method: | EPA 200.7 | | An | alysis De | escrip | otion: 2 | 200.7 Meta | als, Total | | | | | |
| | | | La | boratory | : | F | Pace Analy | tical Servio | ces - Kansa | s City | | | |
| Associated Lab Sar | mples: 60449052 | 2003 | | | | | | | | | | | |
| METHOD BLANK: | 3526509 | | | Matrix | k: Wa | ater | | | | | | | |
| Associated Lab Sar | mples: 60449052 | 2003 | | | | | | | | | | | |
| | | | В | lank | F | Reporting | | | | | | | |
| Para | neter | Units | R | esult | | Limit | Ana | lyzed | Qualifier | s | | | |
| Barium | | mg/L | | <0.0050 |) | 0.0050 | 04/18/2 | 24 13:40 | | | | | |
| Boron | | mg/L | | <0.10 |) | 0.10 | 04/18/2 | 24 13:40 | | | | | |
| Calcium | | mg/L | | <0.20 |) | 0.20 | 04/18/2 | 24 13:40 | | | | | |
| | | | | | | | | | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3526510 | | | | | | | | | | | |
| | | | Spik | ke | LCS | S | LCS | % F | Rec | | | | |
| Parar | neter | Units | Con | с. | Res | ult | % Rec | Lim | nits | Qualifiers | | | |
| Barium | | mg/L | | 1 | | 1.0 | 1(| 03 | 85-115 | | _ | | |
| Boron | | mg/L | | 1 | | 1.0 | 10 | 00 | 85-115 | | | | |
| Calcium | | mg/L | | 10 | | 10.7 | 1(|)7 | 85-115 | | | | |
| | | | E 4 4 | | | 2526542 | | | | | | | |
| MAIRIA SPIKE & I | ATRIA SPIRE DUI | PLICATE: 3526 | MC MC | Mer | ` | 3320312 | | | | | | | |
| | | 60449052003 | Spike | Spik | e | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Unit | s Result | Conc. | Con | с. с. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Barium | mg/l | 0.019 | | 1 | 1 | 1.0 | 1.0 | 100 |) 99 | 70-130 | 1 | 20 | |

4.6

94.9

1

10

4.6

93.4

102

108

96

70-130

92 70-130

1 20

2 20

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REPORT OF LABORATORY ANALYSIS

Boron

Calcium

mg/L

mg/L

3.6

84.1

1

10



| Project: | JEC FAL CCR-Rev | ised Report | | | | | | | | | | |
|--------------------|-------------------|-----------------|---------------|--------------------------|---------------|-------------|------------|-------------|------------|------|-----|------|
| Pace Project No.: | 60449052 | · | | | | | | | | | | |
| QC Batch: | 886920 | | Anal | ysis Metho | d: E | PA 200.8 | | | | | | |
| QC Batch Method: | EPA 200.8 | | Anal | Analysis Description: 20 | | | | | | | | |
| | | | Labo | Laboratory: | | ace Analyti | cal Servic | es - Kansas | s City | | | |
| Associated Lab San | nples: 604490520 | 001, 6044905200 | 2, 6044905 | 52004 | | Ē | | | | | | |
| METHOD BLANK: | 3510975 | | | Matrix: W | /ater | | | | | | | |
| Associated Lab San | nples: 604490520 | 01, 6044905200 | 2, 6044905 | 52004 | | | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | |
| Paran | neter | Units | Res | sult | Limit | Analy | zed | Qualifiers | 6 | | | |
| Arsenic | | mg/L | < | 0.0010 | 0.0010 | 03/26/24 | 16:05 | | | | | |
| Cobalt | | mg/L | < | 0.0010 | 0.0010 | 03/26/24 | 16:05 | | | | | |
| Molybdenum | | mg/L | < | 0.0010 | 0.0010 | 03/26/24 | 16:05 | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 3510976 | | | | | | | | | | |
| | | | Spike | LC | CS | LCS | % R | ec | | | | |
| Paran | neter | Units | Conc. | Re | sult | % Rec | Limi | its C | Qualifiers | | | |
| Arsenic | | mg/L | 0.0 | 04 | 0.042 | 105 | | 85-115 | | | | |
| Cobalt | | mg/L | 0.0 | 04 | 0.043 | 107 | ' i | 85-115 | | | | |
| Molybdenum | | mg/L | 0.0 | 04 | 0.041 | 102 | : 4 | 85-115 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUPI | LICATE: 3510 | 977 | | 3510978 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 60448981002 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic | mg/L | 0.0047 | 0.04 | 0.04 | 0.047 | 0.047 | 105 | 106 | 70-130 | 1 | 20 | |
| Cobalt | mg/L | 0.0030 | 0.04 | 0.04 | 0.046 | 0.046 | 107 | 108 | 70-130 | 1 | 20 | |
| Molybdenum | mg/L | 0.041 | 0.04 | 0.04 | 0.081 | 0.083 | 102 | 105 | 70-130 | 2 | 20 | |
| SAMPLE DUPLICA | TE: 3516370 | | | | | | | | | | | |
| Paran | neter | Units | 604490 Res | 64001 sult | Dup Result | RPD | | Max RPD | Qualif | iers | | |
| Arsenic | | ma/L | < | 0.0010 | <0.0010 | | | 20 |) | | | |
| Cobalt | | mg/L | < | 0.0010 | < 0.0010 | | | 20 |) | | | |
| Molybdenum | | mg/L | | 0.0034 | 0.0033 | | 3 | 20 |) | | | |
| | | | | | | | | | | | | |

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| Project: | JEC FAL CCR-R | evised Report | | | | | | | | | | |
|--------------------|----------------|---------------|-------|--|-----------|------------|---------|------------|------------|-----|-----|------|
| Pace Project No.: | 60449052 | | | | | | | | | | | |
| QC Batch: | 891017 | | Anal | ysis Metho | od: E | EPA 200.8 | | | | | | |
| QC Batch Method: | EPA 200.8 | | Anal | ysis Descr | iption: 2 | 200.8 MET | | | | | | |
| | | | Labo | Laboratory: Pace Analytical Services - Kansas City | | | | | | | | |
| Associated Lab Sar | mples: 6044905 | 2003 | | | | | | | | | | |
| METHOD BLANK: | 3526505 | | | Matrix: W | Vater | | | | | | | |
| Associated Lab Sar | nples: 6044905 | 2003 | | | | | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | |
| Parar | neter | Units | Res | ult | Limit | Analy | yzed | Qualifiers | S | | | |
| Arsenic | | mg/L | < | 0.0010 | 0.0010 | 0 04/18/2 | 4 13:43 | | | | | |
| Cobalt | | mg/L | < | 0.0010 | 0.0010 | 0 04/18/24 | 4 13:43 | | | | | |
| Molybdenum | | mg/L | < | 0.0010 | 0.0010 | 0 04/18/24 | 4 13:43 | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3526506 | | | | | | | | | | |
| | | | Spike | LC | CS | LCS | % R | ec | | | | |
| Parar | neter | Units | Conc. | Re | sult | % Rec | Lim | its (| Qualifiers | | | |
| Arsenic | | mg/L | 0.0 |)4 | 0.041 | 10 | 1 | 85-115 | | _ | | |
| Cobalt | | mg/L | 0.0 |)4 | 0.039 | 98 | 8 | 85-115 | | | | |
| Molybdenum | | mg/L | 0.0 |)4 | 0.040 | 9 | 9 | 85-115 | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE DU | PLICATE: 3526 | 507 | | 3526508 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 60449068003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Uni | s Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic | mg/ | L <1.0 ug/L | 0.04 | 0.04 | 0.043 | 0.043 | 104 | 104 | 70-130 | 0 | 20 | |
| Cobalt | mg/ | L 0.0012 | 0.04 | 0.04 | 0.041 | 0.041 | 100 | 99 | 70-130 | 1 | 20 | |
| Molybdenum | mg/ | L 0.0023 | 0.04 | 0.04 | 0.043 | 0.043 | 101 | 101 | 70-130 | 0 | 20 | |

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| Project: | JEC FAL CCR-Rev | vised Report | | | | | | | | | | |
|--------------------|------------------|-----------------|------------|----------|-------------|------------|-------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 60449052 | | | | | | | | | | | |
| QC Batch: | 886919 | | Anal | ysis Me | thod: | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Analy | ysis Des | scription: | 6010 MET | | | | | | |
| | | | Labo | oratory: | | Pace Analy | ical Servic | es - Kansas | s City | | | |
| Associated Lab Sar | mples: 60449052 | 001, 6044905200 | 2, 6044905 | 52003, 6 | 60449052004 | | | | | | | |
| METHOD BLANK: | 3510971 | | | Matrix: | Water | | | | | | | |
| Associated Lab Sar | mples: 60449052 | 001, 6044905200 | 2, 6044905 | 52003, 6 | 60449052004 | | | | | | | |
| | | | Blai | nk | Reporting | | | | | | | |
| Para | meter | Units | Res | sult | Limit | Anal | /zed | Qualifiers | S | | | |
| Lithium | | mg/L | | <0.010 | 0.01 | 03/21/2 | 4 16:46 | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3510972 | | | | | | | | | | |
| | | | Spike | | LCS | LCS | % R | ес | | | | |
| Para | meter | Units | Conc. | | Result | % Rec | Limi | ts (| Qualifiers | | | |
| Lithium | | mg/L | | 1 | 1.1 | 10 | 6 8 | 30-120 | | _ | | |
| MATRIX SPIKE & M | MATRIX SPIKE DUP | PLICATE: 3510 | 973 | | 3510974 | 4 | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 60448981001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er Units | Result | Conc. | Conc. | . Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Lithium | mg/L | 0.033 | 1 | | 1 1.1 | 1.1 | 105 | 103 | 75-125 | 2 | 20 | |

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| Project: | JEC FAL CCR-Re | vised Report | | | | | | |
|----------------------|-----------------|--------------|-------------|---------------|-----------------|----------------|------------|--|
| Pace Project No.: | 60449052 | | | | | | | |
| QC Batch: | 887323 | | Analysis Me | ethod: | SM 2540C | | | |
| QC Batch Method: | SM 2540C | | Analysis De | escription: 2 | 2540C Total Dis | solved Solids | | |
| | | | Laboratory: | I | Pace Analytical | Services - Kar | nsas City | |
| Associated Lab Sar | nples: 60449052 | 2002 | | | | | | |
| METHOD BLANK: | 3512243 | | Matrix | : Water | | | | |
| Associated Lab Sar | nples: 60449052 | 2002 | | | | | | |
| | | | Blank | Reporting | | | | |
| Parar | neter | Units | Result | Limit | Analyzec | I Quali | fiers | |
| Total Dissolved Soli | ds | mg/L | <5.0 | 5. | 0 03/20/24 10 | :34 | | |
| | | | | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3512244 | | | | | | |
| | | | Spike | LCS | LCS | % Rec | | |
| Parar | neter | Units | Conc | Result | % Rec | Limits | Qualifiers | |
| Total Dissolved Soli | ds | mg/L | 2000 | 1860 | 93 | 80-120 | | |
| | | | | | | | | |
| SAMPLE DUPLICA | TE: 3512245 | | | _ | | | | |
| Demo | | 11-26- | 60448961001 | Dup | 000 | Max | Qualifiant | |
| Parar | neter | Units | Result | Result | | RPD | Qualifiers | |
| Total Dissolved Soli | ds | mg/L | ND | <5. | 0 | | 10 | |
| | TE: 3512246 | | | | | | | |
| | 12. 00122-0 | | 60449062003 | Dup | | Max | | |
| Parar | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Dissolved Soli | ds | mg/L | 3250 | 367 | 0 | 12 | 10 D6 | |

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| Project: | JEC FAL CCR-R | evised Report | | | | | | |
|-----------------------|---------------|------------------|-----------------|------------|----------------|-----------------|------------|--|
| Pace Project No.: | 60449052 | | | | | | | |
| QC Batch: | 887513 | | Analysis Me | thod: | SM 2540C | | | |
| QC Batch Method: | SM 2540C | | Analysis De | scription: | 2540C Total Di | ssolved Solids | | |
| | | | Laboratory: | | Pace Analytica | l Services - Ka | nsas City | |
| Associated Lab Sam | ples: 6044905 | 52001, 604490520 | 03, 60449052004 | | | | | |
| METHOD BLANK: | 3513109 | | Matrix | : Water | | | | |
| Associated Lab Sam | ples: 6044905 | 2001, 604490520 | 03, 60449052004 | | | | | |
| | | | Blank | Reporting | | | | |
| Param | eter | Units | Result | Limit | Analyze | d Qual | ifiers | |
| Total Dissolved Solid | ls | mg/L | <5.0 | 5. | .0 03/21/24 1 | 1:35 | | |
| | | | | | | | | |
| LABORATORY CON | ITROL SAMPLE: | 3513110 | | | | | | |
| | | | Spike | LCS | LCS | % Rec | | |
| Param | eter | Units | Conc. | Result | % Rec | Limits | Qualifiers | |
| Total Dissolved Solid | ls | mg/L | 2000 | 1830 | 92 | 80-120 | | |
| | E. 2512111 | | | | | | | |
| SAMPLE DUPLICAT | E. 3313111 | | 60449026001 | Dun | | Max | | |
| Param | eter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Dissolved Solid | ls | mg/L | 489 | 50 | 07 | 3 | 10 | |
| | E: 3513112 | | | | | | | |
| | L. 3313112 | | 60449065006 | Dup | | Max | | |
| Param | eter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Dissolved Solid | ls | ma/L | 761 | 79 | | 4 | 10 | |

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| Project: | JEC FAL CCR-Revise | ed Report | | | | | | |
|--------------------|--------------------|------------|---------------|----------|----------------|-----------------|------------|---|
| Pace Project No.: | 60449052 | | | | | | | |
| QC Batch: | 887127 | | Analysis Meth | od: | SM 4500-H+B | | | |
| QC Batch Method: | SM 4500-H+B | | Analysis Desc | ription: | 4500H+B pH | | | |
| | | | Laboratory: | | Pace Analytica | I Services - Ka | nsas City | |
| Associated Lab San | nples: 60449052002 | 2 | | | | | | |
| SAMPLE DUPLICA | ΓE: 3511675 | | | | | | | |
| | | | 60449064001 | Dup | | Max | | |
| Paran | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| pH at 25 Degrees C | | Std. Units | 6.9 | | 7.1 | 2 | 5 H6 | _ |

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.



| Project: | JEC FAL CCR-Rev | vised Report | | | | | | | |
|--------------------|------------------|-----------------|----------------|-----------|----------------|----------|------------|------------|--|
| Pace Project No.: | 60449052 | | | | | | | | |
| QC Batch: | 887322 | | Analysis Meth | iod: | SM 4500-H+B | | | | |
| QC Batch Method: | SM 4500-H+B | | Analysis Desc | cription: | 4500H+B pH | | | | |
| | | | Laboratory: | | Pace Analytica | al Servi | ces - Kans | sas City | |
| Associated Lab San | nples: 604490520 | 001, 6044905200 | 3, 60449052004 | | | | | | |
| SAMPLE DUPLICA | TE: 3512242 | | | | | | | | |
| | | | 60449215003 | Dup | | | Max | | |
| Paran | neter | Units | Result | Result | RPD | | RPD | Qualifiers | |
| pH at 25 Degrees C | ; | Std. Units | 8.9 | | 9.0 | 1 | | 5 H6 | |

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| Project: | JEC FAL CCR-Rev | sed Report | | | | | | |
|--------------------|------------------|------------|---------------|----------|----------------|------------------|------------|--|
| Pace Project No.: | 60449052 | | | | | | | |
| QC Batch: | 891664 | | Analysis Meth | od: | SM 4500-H+B | | | |
| QC Batch Method: | SM 4500-H+B | | Analysis Desc | ription: | 4500H+B pH | | | |
| | | | Laboratory: | | Pace Analytica | I Services - Kar | nsas City | |
| Associated Lab Sam | nples: 604490520 | 03 | | | | | | |
| SAMPLE DUPLICAT | FE: 3529109 | | | | | | | |
| | | | 60449052003 | Dup | | Max | | |
| Param | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| pH at 25 Degrees C | | Std. Units | 8.0 | 8 | 3.1 | 2 | 5 H6 | |

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| Project: Pace Project No.: | JEC FAL CCR-Rev 60449052 | vised Report | | | | | | | | | | |
|-------------------------------|-----------------------------|-----------------|-----------|--------------|-----------|-------------|--------------|-------------|------------|------|-------|-------|
| QC Batch: | 887337 | | Anal | ysis Method | d: E | PA 300.0 | | | | | | |
| QC Batch Method: | EPA 300.0 | | Anal | ysis Descrij | ption: 3 | 00.0 IC An | ions | | | | | |
| | | | Labo | oratory: | F | Pace Analyt | ical Service | es - Kansas | City | | | |
| Associated Lab Sa | amples: 604490520 | 001, 6044905200 | 2, 604490 | 52003 | | | | | | | | |
| METHOD BLANK: | 3512315 | | | Matrix: W | ater | | | | | | | |
| Associated Lab Sa | amples: 604490520 | 001, 6044905200 | 2, 604490 | 52003 | | | | | | | | |
| | | | Bla | nk l | Reporting | | | | | | | |
| Para | ameter | Units | Res | sult | Limit | Analy | yzed | Qualifiers | ; | | | |
| Chloride | | mg/L | | <1.0 | 1.0 | 03/21/24 | 4 08:46 | | | | | |
| Fluoride | | mg/L | | <0.20 | 0.20 | 03/21/24 | 4 08:46 | | | | | |
| Sulfate | | mg/L | | <1.0 | 1.0 | 03/21/24 | 4 08:46 | | | | | |
| LABORATORY CO | ONTROL SAMPLE: | 3512316 | Spike | LC | S | LCS | % R | ec | | | | |
| Para | ameter | Units | Conc. | Res | sult | % Rec | Limi | ts C | Qualifiers | | | |
| Chloride | | mg/L | | 5 | 4.7 | 94 | 4 9 | 90-110 | | | | |
| Fluoride | | mg/L | 2 | 5 | 2.4 | 9 | 7 9 | 90-110 | | | | |
| Sulfate | | mg/L | | 5 | 4.9 | 98 | 8 9 | 90-110 | | | | |
| MATRIX SPIKE & | MATRIX SPIKE DUP | LICATE: 3512 | 317 | | 3512318 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 60449052001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | mg/L | 170 | 250 | 250 | 427 | 398 | 103 | 91 | 80-120 | 7 | 15 | |
| Fluoride | mg/L | <0.20 | 2.5 | 2.5 | 2.6 | 2.6 | 101 | 100 | 80-120 | 1 | 15 | |
| Sulfate | mg/L | 874 | 250 | 250 | 1200 | 1120 | 129 | 100 | 80-120 | 6 | 15 | E,M1 |
| MATRIX SPIKE SA | AMPLE: | 3512319 | | | | | | | | | | |
| | | | 60449 | 9065002 | Spike | MS | | MS | % Rec | | | |
| Para | ameter | Units | Re | esult | Conc. | Result | % | Rec | Limits | | Quali | fiers |
| Chloride | | mg/L | | 78.4 | 250 | | 323 | 98 | 80 | -120 | | |
| Fluoride | | mg/L | | <0.20 | 2.5 | | 2.1 | 82 | 80 | -120 | | |
| Sulfate | | mg/L | | 332 | 250 | | 601 | 107 | 80 | -120 | | |

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| Project: | JEC FA | L CCR-Rev | ised Report | | | | | | | | | | |
|--------------------|--------|-----------|-------------|-------|-------------|-----------|-------------|--------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 604490 |)52 | | | | | | | | | | | |
| QC Batch: | 8873 | 54 | | Anal | ysis Metho | d: I | EPA 300.0 | | | | | | |
| QC Batch Method: | EPA 3 | 300.0 | | Anal | ysis Descri | ption: | 300.0 IC An | ions | | | | | |
| | | | | Labo | oratory: | | Pace Analy | tical Servic | es - Kansas | s City | | | |
| Associated Lab Sar | nples: | 604490520 | 004 | | Ē | | | | | | | | |
| METHOD BLANK: | 351242 | 22 | | | Matrix: W | /ater | | | | | | | |
| Associated Lab Sar | nples: | 604490520 | 004 | | | | | | | | | | |
| | • | | - | Bla | nk | Reportina | | | | | | | |
| Parar | neter | | Units | Res | ult | Limit | Anal | yzed | Qualifiers | 3 | | | |
| Chloride | | | mg/L | | <1.0 | 1. | 0 03/21/2 | 4 20:24 | | | | | |
| Fluoride | | | mg/L | | <0.20 | 0.2 | 0 03/21/2 | 4 20:24 | | | | | |
| Sulfate | | | mg/L | | <1.0 | 1. | 0 03/21/2 | 4 20:24 | | | | | |
| LABORATORY CO | NTROLS | SAMPLE: | 3512423 | | | | | | | | | | |
| | | | | Spike | LC | s | LCS | % R | ec | | | | |
| Parar | neter | | Units | Conc. | Res | sult | % Rec | Lim | its (| Qualifiers | | | |
| Chloride | | | mg/L | | 5 | 4.9 | 9 | 8 | 90-110 | | _ | | |
| Fluoride | | | mg/L | 2 | .5 | 2.5 | 9 | 9 | 90-110 | | | | |
| Sulfate | | | mg/L | | 5 | 5.0 | 10 | 1 | 90-110 | | | | |
| MATRIX SPIKE & M | | | ICATE: 3512 | 121 | | 3512425 | | | | | | | |
| | | | 10ATE: 3312 | MS | MSD | 0012420 | | | | | | | |
| | | | 60448568015 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | | mg/L | 2350 | 2500 | 2500 | 4770 | 4550 | 97 | 88 | 80-120 | 5 | 15 | |
| Fluoride | | mg/L | ND | 125 | 125 | 140 | 137 | 112 | 110 | 80-120 | 2 | 15 | |
| Sulfate | | mg/L | 116 | 250 | 250 | 391 | 382 | 110 | 107 | 80-120 | 2 | 15 | |

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



QUALIFIERS

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60449052

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- 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.

ace[®]

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:JEC FAL CCR-Revised ReportPace Project No.:60449052

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch | | |
|--|--|--|--------------------------------------|--|--------------------------------------|--|--|
| 60449052001 | FAA-3-031424 | EPA 200.7 | 886918 | EPA 200.7 | 887028 | | |
| 60449052002 | FAA-4-031324 | EPA 200.7 | 886918 | EPA 200.7 | 887028 | | |
| 60449052003 | FAA-6-031424 | EPA 200.7 | 891020 | EPA 200.7 | 891034 | | |
| 60449052004 | JEC-FAA-DUP-031424 | EPA 200.7 | 886918 | EPA 200.7 | 887028 | | |
| 60449052001 60449052002 60449052003 60449052004 | FAA-3-031424 FAA-4-031324 FAA-6-031424 JEC-FAA-DUP-031424 | EPA 3010 EPA 3010 EPA 3010 EPA 3010 | 886919 886919 886919 886919 | EPA 6010 EPA 6010 EPA 6010 EPA 6010 | 887027 887027 887027 887027 | | |
| 60449052001 60449052002 | FAA-3-031424 FAA-4-031324 | EPA 200.8 EPA 200.8 | 886920 886920 | EPA 200.8 EPA 200.8 | 887029 887029 | | |
| 60449052003 | FAA-6-031424 | EPA 200.8 | 891017 | EPA 200.8 | 891033 | | |
| 60449052004 | JEC-FAA-DUP-031424 | EPA 200.8 | 886920 | EPA 200.8 | 887029 | | |
| 60449052001 60449052002 60449052003 60449052004 | FAA-3-031424 FAA-4-031324 FAA-6-031424 JEC-FAA-DUP-031424 | EPA 245.1 EPA 245.1 EPA 245.1 EPA 245.1 | 889416 889416 889416 889416 | EPA 245.1 EPA 245.1 EPA 245.1 EPA 245.1 | 889448 889448 889448 889448 | | |
| 60449052001 | FAA-3-031424 | SM 2540C | 887513 | | | | |
| 60449052002 | FAA-4-031324 | SM 2540C | 887323 | | | | |
| 60449052003 60449052004 | FAA-6-031424 JEC-FAA-DUP-031424 | SM 2540C SM 2540C | 887513 887513 | | | | |
| 60449052001 | FAA-3-031424 | SM 4500-H+B | 887322 | | | | |
| 60449052002 | FAA-4-031324 | SM 4500-H+B | 887127 | | | | |
| 60449052003 | FAA-6-031424 | SM 4500-H+B | 887322 | | | | |
| 60449052003 | FAA-6-031424 | SM 4500-H+B | 891664 | | | | |
| 60449052004 | JEC-FAA-DUP-031424 | SM 4500-H+B | 887322 | | | | |
| 60449052001 60449052002 60449052003 | FAA-3-031424 FAA-4-031324 FAA-6-031424 | EPA 300.0 EPA 300.0 EPA 300.0 | 887337 887337 887337 | | | | |
| 60449052004 | JEC-FAA-DUP-031424 | EPA 300.0 | 887354 | | | | |

| | | | W0#:60449052 |
|---|--|------------------------------------|---|
| Pace | DC#_Title: ENV-F | RM-LENE-0009_Samp | |
| / ANALYTICAL SERVICES | Revision: 2 | Effective Date: 01/12/202 | 22 |
| Client Name: | Evergy | | |
| Courier: FedEx D UP | S 🗆 VIA 🗆 Clay 🗆 | PEX 🗆 🛛 ECI 🗆 | Pace 🗆 Xroads 🗆 Client 💋 Other 🗆 |
| Tracking #: | | Pace Shipping Label Used | ? Yes 🗆 Ng/🗖 |
| Custody Seal on Cooler/Bo | x Present: Yes 💋 No | Seals intact: Yes | No 🗆 |
| Packing Material: Bub | ble Wrap 🗆 🥈 Bubble E | ags 🗆 🎧 Foam 🗆 | |
| Thermometer Used: | JUK Ty | pe of Ice. We Blue Non | e Date and initials of person |
| Cooler Temperature (°C): | As-read | Factor OJ Correcte | ed _(, \ examining contents: 03.15.20) |
| Temperature should be above fre | eezing to 6°C | | |
| Chain of Custody present: | | ZYes No N/A | |
| Chain of Custody relinquishe | d; | Yes No N/A | |
| Samples arrived within holdin | g time: | Yes 🗆 No 🗆 N/A | |
| Short Hold Time analyses (| <72hr): | □Yes ØNo □N/A | |
| Rush Turn Around Time red | uested: | □Yes 🖉No □N/A | |
| Sufficient volume: | | Yes 🗆 No 🗇 N/A | |
| Correct containers used: | | Yes DNo DN/A | |
| Pace containers used: | | | |
| Containers intact: | | | |
| Uppreserved 5035A / TX1005 | 1006 soils frazes in 49bra | | |
| Filtered volume received for d | intervention of the star | | |
| -intered volume received for a | ISSOIVED TESTS? | | |
| Sample labels match COC: D | ate / time / ID / analyses | | |
| Samples contain multiple pha | ses? Matrix: | | |
| Containers requiring pH prese (HNO ₃ , H ₂ SO ₄ , HCl<2: NaOH>9.9 | ervation in compliance? Sulfide, NaOH>10 Cyanide) | P ^I Yes ⊡No ⊡N/A L d | Ist sample IDs, volumes, lot #'s of preservative and the late/time added. |
| Exceptions: VOA, Micro, O&G, H | (S TPH, OK-DRO) | _ot#: 67187 | |
| -yanide water sample checks Lead acetate strip turns dark? | (Record only) | Yes No | |
| Potassium iodide test strip tur | ns blue/purple? (Preserve) | | |
| Frip Blank present: | | | |
| leadspace in VOA viale / >6n | om); | | |
| Samples from LICDA Dearth | | | |
| Samples nom USDA Regulate | eu Area: State: | | |
| Additional labels attached to 5 | 035A / TX1005 vials in the | field? LIYes INo V/A | Field Data Required 2 Y / N |
| Person Contacted: | | ate/Time | FIEID Data Required (T / N |
| Comments/ Resolution: | | | <u></u> |
| | | | |
| | | | |
| Project Manager Review: | | Date: | |

| 2 | Pace [®] Location Reques | sted (City/Sta | te): | | | - | | | | | | | | | | | | | | | _ | | | | |
|---------------------------------------|-----------------------------------|--------------------|----------------|-------------|----------------------|-----------------|------------------------|----------------|----------------------|------------|----------|------------|---------|------------|---------------|----------|----------|---------|-----------|----------|---------------|-----------------------------|--------------------------------------|--------------------------------|---------------|
| Parpo | Pace Analytical Kansas | | ,. | | CHAIN-OF- | CUSTOD | Analytical | Request | Doci | ument | t | | | | | LAB L | JSE OI | NLY- A | ffix W | orkorde | er/Log | in Label H | ere | | |
| racc | 9608 Loiret Blvd., Lenexa, K | S 66219 | | | Chain-of-Cu | istody is a LEG | AL DOCUMENT - Co | mplete all rel | evant fie | elds | | | | 984 | | | | | | | | | | | |
| Company Name: | Evergy Kansas Central, I | nc. | | | Contact/Report | o: Jake Hu | mphrev | | | _ | | ł | | 66 | | | 6 | 2 | M | 90 | 5 | 2 | | | |
| Street Address: | 818 S Kansas Avenue, To | opeka, KS 6661 | 12 | | Phone #: | (913)63 | 4-0605 | | | | | | 賜 | | | | U | 20 | | 10 | _ | | | | |
| | | | | | E-Mail: | jake.hu | mphrey@evergy | .com | | | | | | 31 | 6 | | Scar | | ode f | or instr | ruction | ne - | | | |
| | | | | | Cc E-Mail: | skaney | @haleyaldrich.co | m | | | | | | r. What Do | | | ocar | GIVE | Jouer | | luction | 15 | | | |
| Customer Project #: | | | | | | | - | | | | | | | | Sner | ify Con | tainers | izo ** | | | | **Container S | ize: (1) 11. (2) 5 | 00ml (3) 25 | 0mi (4) |
| Project Name: | JEC FAL CCR | | | | Invoice To: | Jeffrey | Center | | | _ | _ | 3 | 2 | 2 | T | | | | 1 | | | 125mi, (5) 10 | JmL, (6) 40mL v | rial, (7) EnCor | re, (8) |
| | | | | | Invoice E-Mail: | evergya | ap@onlinecaptur | ecenter.con | ı | | | <u>ا</u> | | Iden | l tify Con | tainer | Preserva | L | l | | L | retracore, (9) | 90mL, (10) Oth | er | |
| Site Collection Info | /Facility ID (as applicable): | | | | Purchase Order # | (if WSTR-2 | 2000095397 | | | | | 2 | 1 | 1 | r i | | | | | | r | Preservati H2504, (4) HC | ve Types: (1) No I, (5) NaOH, (6) | one, (2) HNO. Zn Acetate, (| 3, (3) (7) |
| | | | | | applicable): | | | | | | | <u> </u> | | <u> </u> | A | nalysis | Reques | L | ļ | | | NaH504, (8) S | od. Thiosulfate, | (9) Ascorbic | Acid, (10) |
| | | | | | Quote #: | | | | | | | 10 | 1 | | | T T | Ľ | | | | | Proj Ma | r. | | - <u> </u> |
| Time Zone Collecter | d: []AK []PT [] | MT [X]CI | r []e | Т | County / State or | igin of sample | (s): Kansas | | | | | 8 | | | | | | | | | | Alice S | piller | | d for |
| Data Deliverables. | | Regulatory Pro | ogram (DW | /, RCRA, el | tc.) as applicable: | Reportal | ble []Yes [X |] No | | | | ₽ ₽ | s ع | | | | | | | | | AcctNum | / Client ID: | | ntifie |
| []LevelII [] | Level III [] Level IV | | Ru | sh (Pre-a | approval require | d): | IDW PWS | ID # or WW Pe | rmit # as | applicable | | ပို | Soli | | | | | | | | | Aluc | | | e ide |
| E LEOUIS | | [] Same Da | ay []1C | ay [] 2 | Day [] 3 Day [|] Other | | | inne n az | applicable | | 8 As | led : | | | | | | | | | Table #: | | | mano |
| []EQUIS | | Date Results | | | | | Field Filtered (if a | oplicable): [|] Yes | [X]No | | 200. | solv | 8 | | | | | | | | Profile / | Template: | | ampli |
| Other Matrix Codes (Ins. | ert in Matrix hox belowly Drink | Requested: | Ground | Vatas ICU | A Marke Marker A | and Dead at | Analysis: | | | | | Ba/ | Dis | E'S | 1 | | | | | | | 9655 | | | on-co |
| (B), Vapor (V), Surfa | ace Water (SW),Sediment (SED |), Sludge (SL), Ca | aulk (CK), L | eachate (l | L), Biosolid (BS), C | other (OT) | P), Soil/Solid (SS), O | il (OL), Wipe | (WP), Ti | ssue (TS), | Bioassay | Ca, | otal | | | | | | | | | Prelog / | Bottle Ord. If | D: | ion n |
| | Customor Sample ID | | B.d. staring B | Comp / | Composi | te Start | Collected or Cor | nposite End | # | Res. C | hlorine | 7 B, | C I | 00 | | | | | | | | EZ 308 | 10036 | | ervat |
| | | | WIACTIX | Grab | Date | Time | Date | Time | Cont. | Results | Units | 200. Li | 254(| ЪН, | | | | | | | | Sar | nple Comr | nent | Pres |
| | FAA-3-031424 | | WT | Grab | 3.0 | • | 3/14/2024 | 920 | 3 | | 2 | x | X | X | | | | | | | | | | | |
| | FAA-4-031324 | | WT | Grab | | Ē | 3/13/2024 | 1630 | 3 | • | • | X | X | X | | | | | | | | | | | |
| | FAA-6-031424 | | WT | Grab | 8 4 7 | - | 3/14/2024 | 1005 | 3 | • | 2 | х | X | X | | | | | | | | | | | |
| | JEC-FAA-DUP-031424 | | wτ | Grab | | | 3/14/2024 | 1005 | 3 | | • | х | X | X | | | | | | | | | | | |
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| · · · · · · · · · · · · · · · · · · · | | | | | | | | | - | | | | | | | | | _ | | | | N | | | |
| Additional Instruction | ons from Pace® | | | | I | Collocted D: | | | | | I | Curi | | L | | Court: | | | <u> </u> | | | | | | |
| | | | | | | (Printed Nan | ne) | Matt Var | derPut | ten | | Custor | mer kei | marks / | Special | Condit | ions / P | ossible | Hazard | s: | | | | | |
| | | | | | | Signature: | | | | | | # Coi | olers: | | Thermo | meter ID | x | Correc | tion Fact | or (*C); | Obs. | Temp. (°C) | Corrected Te | mp. (*C) | On Ice: |
| Relinquished by/Compa | iny: (Signature) | | Pineers | Date/Time: | 03/14/2024 / 1 | 730 | Received by/Company | : (Signature) | | | TA | - 01 | 6 | | Date/Ti | l'ice | 124 | | 173 | > | 4 Tracking | Number: | (-1 | | |
| Relinguished by/Compa | iny: (Signature) | | 8.11-C13 | Date/Time: | | | Received by/Company | : (Signature) | | | 5- | -1' | . ~ | | Date/Te | me: | -7 | | | | Deliver | ed by: [] In | - Person í | 1 Courier | |
| Relimuished by/Compa | ny: (Signature) | | | Date/Time: | 8 | | Received by/Company | : (Signature) | | | | | | | Date/Ti | me: | | | | | ti) | []FedEX | [] UPS | [] Other | r |
| Relinguished by/Compa | iny: (Signature) | | | Date/Time: | | | Received by/Company | : (Signature) | | | | | | | Date/Ti | me | | | | | Pag | e: 1 | of | 1 | |
| لے | | | _ | | | | | | | _ | | | | _ | | _ | _ | _ | _ | | | | <i></i> | - | |

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

ENV-FRM-CORQ-0019_v02_110123 ©



Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

April 26, 2024

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

RE: Project: MW-FAA-5-Revised Report Pace Project No.: 60449055

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2024. 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 200.8 metals at lower dilution.

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

Sincerely,

Alice Spiller

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

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Andrew Watson, Haley & Aldrich





CERTIFICATIONS

Project: MW-FAA-5-Revised Report Pace Project No.: 60449055

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Inorganic Drinking Water Certification 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



SAMPLE SUMMARY

| Project: | MW-FAA-5-Revised Report |
|--------------------|-------------------------|
| Pace Project No .: | 60449055 |

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
|-------------|--------------|--------|----------------|----------------|--|
| 60449055001 | FAA-5-031424 | Water | 03/13/24 10:10 | 03/14/24 17:30 | |


SAMPLE ANALYTE COUNT

| Project: | MW-FAA-5-Revised Report |
|-------------------|-------------------------|
| Pace Project No.: | 60449055 |

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|-------------|----------|----------------------|------------|
| 60449055001 | FAA-5-031424 | EPA 200.7 | JXD | 6 | PASI-K |
| | | EPA 6010 | JXD | 1 | PASI-K |
| | | EPA 200.8 | JGP | 7 | PASI-K |
| | | EPA 245.1 | ACLC | 1 | PASI-K |
| | | SM 2540C | KVI | 1 | PASI-K |
| | | SM 4500-H+B | SR1 | 1 | PASI-K |
| | | EPA 300.0 | PL, RKA | 3 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method: EPA 200.7

Description:200.7 Metals, TotalClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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: 886918

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60448981001,60449055001

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

- MS (Lab ID: 3510970)
 - Calcium

Additional Comments:



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method: EPA 6010

Description:6010 MET ICPClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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:



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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:



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method: EPA 245.1

Description:245.1 MercuryClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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:



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method: SM 2540C

Description:2540C Total Dissolved SolidsClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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.

QC Batch: 887323

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

- DUP (Lab ID: 3512246)
 - Total Dissolved Solids

Additional Comments:



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method: SM 4500-H+B

Description:4500H+ pH, ElectrometricClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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-5-031424 (Lab ID: 60449055001)

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:



Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

Method:EPA 300.0Description:300.0 IC Anions 28 DaysClient:Evergy Kansas Central, Inc.Date:April 26, 2024

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.

Additional Comments:

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



ANALYTICAL RESULTS

Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

| Sample: FAA-5-031424 | Lab ID: 604 | 449055001 | Collected: 03/13/2 | 24 10:10 | 0 Received: 03 | /14/24 17:30 N | latrix: Water | |
|-------------------------------|--------------------------------|-------------------------------|-----------------------|----------|----------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.7 Metals, Total | Analytical Me | thod: EPA 20 | 0.7 Preparation Met | hod: El | PA 200.7 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Barium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 03/18/24 09:53 | 03/21/24 16:16 | 7440-39-3 | |
| Beryllium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 03/18/24 09:53 | 03/21/24 16:16 | 7440-41-7 | |
| Boron, Total Recoverable | 1.7 | mg/L | 0.10 | 1 | 03/18/24 09:53 | 03/21/24 16:16 | 7440-42-8 | |
| Calcium, Total Recoverable | 525 | mg/L | 0.20 | 1 | 03/18/24 09:53 | 03/21/24 16:16 | 7440-70-2 | M1 |
| Chromium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 03/18/24 09:53 | 03/21/24 16:16 | 7440-47-3 | |
| Lead, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 03/18/24 09:53 | 03/21/24 16:16 | 7439-92-1 | |
| 6010 MET ICP | Analytical Me | thod: EPA 60 | 10 Preparation Met | nod: EP | PA 3010 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Lithium, Total Recoverable | 0.14 | mg/L | 0.010 | 1 | 03/18/24 09:53 | 03/21/24 17:23 | 7439-93-2 | |
| 200.8 MET ICPMS | Analytical Me | thod: EPA 20 | 0.8 Preparation Met | hod: El | PA 200.8 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Antimony, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7440-36-0 | |
| Arsenic, Total Recoverable | 0.0012 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7440-38-2 | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7440-43-9 | |
| Cobalt, Total Recoverable | 0.0014 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7440-48-4 | |
| Molybdenum, Total Recoverable | 0.017 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7439-98-7 | |
| Selenium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7782-49-2 | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 04/18/24 08:04 | 04/18/24 13:57 | 7440-28-0 | |
| 245.1 Mercury | Analytical Me | thod: EPA 24 | 5.1 Preparation Met | hod: El | PA 245.1 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 03/26/24 10:19 | 03/26/24 15:15 | 7439-97-6 | |
| 2540C Total Dissolved Solids | Analytical Me | thod: SM 254 | ł0C | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Total Dissolved Solids | 2940 | mg/L | 66.7 | 1 | | 03/20/24 10:35 | | |
| 4500H+ pH, Electrometric | Analytical Me Pace Analytic | thod: SM 450 al Services - | 00-H+B Kansas City | | | | | |
| pH at 25 Degrees C | 6.8 | Std. Units | 0.10 | 1 | | 03/18/24 12:43 | | H6 |
| 300.0 IC Anions 28 Days | Analytical Me | thod: EPA 30 | 0.0 | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Chloride | 89.3 | mg/L | 20.0 | 20 | | 03/22/24 00:51 | 16887-00-6 | |
| Fluoride | 0.93 | mg/L | 0.20 | 1 | | 03/23/24 01:34 | 16984-48-8 | |
| Sulfate | 2230 | mg/L | 200 | 200 | | 03/23/24 01:47 | 14808-79-8 | |



| Project: | MW-FAA-5-Revise | ed Report | | | | | | | | | | |
|--------------------|-----------------|------------------|-------|-------------|------------|--------------|-------------|------------|------------|------|--------|------|
| Pace Project No .: | 60449055 | | | | | | | | | | | |
| QC Batch: | Ana | Analysis Method: | | | EPA 245.1 | | | | | | | |
| QC Batch Method: | EPA 245.1 | | Ana | lysis Descr | iption: | 245.1 Mercu | ury | | | | | |
| | | | Lab | oratory: | | Pace Analyt | ical Servic | es - Kansa | s City | | | |
| Associated Lab Sam | nples: 60449055 | 001 | | | | | | | | | | |
| METHOD BLANK: | 3514268 | | | Matrix: V | Vater | | | | | | | |
| Associated Lab Sam | nples: 60449055 | 001 | | | | | | | | | | |
| | | | Bla | ink | Reporting | | | | | | | |
| Param | neter | Units | Res | sult | Limit | Analy | yzed | Qualifier | s | | | |
| Mercury | | ug/L | | <0.20 | 0.2 | 20 03/26/24 | 4 14:56 | | | | | |
| LABORATORY CON | ITROL SAMPLE: | 3514269 | | | | | | | | | | |
| Param | neter | Linite | Spike | E LO | US Sult | LCS % Rec | % R Limi | ec ts (| Qualifiers | | | |
| Maraun | | | | | | | | | guainero | _ | | |
| Mercury | | ug/∟ | | 5 | 4.9 | 90 | 0 0 | 55-115 | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE DUP | PLICATE: 3514 | 270 | | 351427 | 1 | | | | | | |
| | | | MS | MSD | | | | | _ | | | |
| Deremeter | Linita | 60448879001 | Spike | Spike | MS | MSD | MS % Dee | MSD | % Rec | חחח | Max | Qual |
| Falameter | Units | | | | | | % Rec | | | | | Quai |
| Mercury | ug/L | 0.60 | 5 | 5 | 5.6 | 5.5 | 99 | 99 | 70-130 | 0 | 20 | |
| MATRIX SPIKE SAM | /IPLE: | 3514272 | | | | | | | | | | |
| | | | 6044 | 9064005 | Spike | MS | | MS | % Rec | ; | | |
| Param | neter | Units | R | esult | Conc. | Result | % | Rec | Limits | | Qualif | iers |
| Mercury | | ug/L | | <0.20 | 5 | | 6.4 | 127 | 70 | -130 | | |

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| Project: | MW-FAA-5-Revised Report |
|----------|-------------------------|

| Pace Project No.: 6 | 60449055 |
|---------------------|----------|
|---------------------|----------|

| QC Batch: | 886918 | 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 Samp | oles: 60449055001 | | |

Matrix: Water

METHOD BLANK: 3510966

Associated Lab Samples: 60449055001

| | | Blank | Reporting | | |
|-----------|-------|---------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Barium | mg/L | <0.0050 | 0.0050 | 03/21/24 15:39 | |
| Beryllium | mg/L | <0.0010 | 0.0010 | 03/21/24 15:39 | |
| Boron | mg/L | <0.10 | 0.10 | 03/21/24 15:39 | |
| Calcium | mg/L | <0.20 | 0.20 | 03/21/24 15:39 | |
| Chromium | mg/L | <0.0050 | 0.0050 | 03/21/24 15:39 | |
| Lead | mg/L | <0.010 | 0.010 | 03/21/24 15:39 | |

LABORATORY CONTROL SAMPLE: 3510967

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|----------------|---------------|--------------|-----------------|------------|
| Barium | mg/L | | 0.99 | 99 | 85-115 | |
| Beryllium | mg/L | 1 | 1.0 | 104 | 85-115 | |
| Boron | mg/L | 1 | 0.95 | 95 | 85-115 | |
| Calcium | mg/L | 10 | 9.9 | 99 | 85-115 | |
| Chromium | mg/L | 1 | 1.1 | 105 | 85-115 | |
| Lead | mg/L | 1 | 1.0 | 104 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3510968

| | | MS | MSD | | | | | | | | |
|-----------------|-------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | 60448981001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Barium mg/L | 0.059 | 1 | 1 | 1.1 | 1.1 | 101 | 100 | 70-130 | 0 | 20 | |
| Beryllium mg/L | <0.0010 | 1 | 1 | 1.1 | 1.1 | 107 | 105 | 70-130 | 1 | 20 | |
| Boron mg/L | 0.64 | 1 | 1 | 1.6 | 1.6 | 98 | 97 | 70-130 | 0 | 20 | |
| Calcium mg/L | 122 | 10 | 10 | 131 | 130 | 91 | 83 | 70-130 | 1 | 20 | |
| Chromium mg/L | <0.0050 | 1 | 1 | 1.0 | 1.0 | 104 | 102 | 70-130 | 2 | 20 | |
| Lead mg/L | <0.010 | 1 | 1 | 1.0 | 1.0 | 100 | 100 | 70-130 | 1 | 20 | |

3510969

MATRIX SPIKE SAMPLE:

3510970

| MATRIX SPIKE SAMPLE: | 3510970 | | | | | | |
|----------------------|---------|-----------------------|----------------|--------------|-------------|-----------------------|------------|
| Parameter | Units | 60449055001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Barium | mg/L | <0.0050 | 1 | 1.0 | 101 | 70-130 | |
| Beryllium | mg/L | <0.0010 | 1 | 1.0 | 105 | 70-130 | |
| Boron | mg/L | 1.7 | 1 | 2.7 | 104 | 70-130 | |
| Calcium | mg/L | 525 | 10 | 556 | 308 | 70-130 M ² | 1 |
| Chromium | mg/L | <0.0050 | 1 | 1.0 | 104 | 70-130 | |
| | | | | | | | |

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REPORT OF LABORATORY ANALYSIS

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Qualifiers

70-130

QUALITY CONTROL DATA

| Project: Pace Project No.: | MW-FAA-5-Re ^v 60449055 | vised Report | | | | | |
|-------------------------------|--------------------------------------|--------------|-------------|-------|--------|-------|--------|
| MATRIX SPIKE SAM | /PLE: | 3510970 | 60449055001 | Spike | MS | MS | % Rec |
| Param | neter | Units | Result | Conc. | Result | % Rec | Limits |
| Lead | | mg/L | <0.010 | 1 | 0.97 | 97 | 70- |

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| Proiect: | MW-FAA-5-Revised | Report |
|-----------|------------------|--------|
| 1 10,000. | | ropon |

| Pace Project No.: | 604490 |
|-------------------|--------|
|-------------------|--------|

| | MINTI AA-J-IVEVISEU IVE |
|------|-------------------------|
| No.: | 60449055 |

| QC Batch: | 891017 | 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: 60449055001 | | | | | | | | | |
| METHOD BLANK: | 3526505 | Matrix: Water | | | | | | | |
| Associated Lab Samples: 60449055001 | | | | | | | | | |
| | | Blank Reportir | ng | | | | | | |

| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
|------------|-------|----------|---------|----------------|------------|
| Antimony | mg/L | <0.0010 | 0.0010 | 04/18/24 13:43 | |
| Arsenic | mg/L | <0.0010 | 0.0010 | 04/18/24 13:43 | |
| Cadmium | mg/L | <0.00050 | 0.00050 | 04/18/24 13:43 | |
| Cobalt | mg/L | <0.0010 | 0.0010 | 04/18/24 13:43 | |
| Molybdenum | mg/L | <0.0010 | 0.0010 | 04/18/24 13:43 | |
| Selenium | mg/L | <0.0010 | 0.0010 | 04/18/24 13:43 | |
| Thallium | mg/L | <0.0010 | 0.0010 | 04/18/24 13:43 | |

LABORATORY CONTROL SAMPLE: 3526506

| 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 | 0.041 | 101 | 85-115 | |
| Cadmium | mg/L | 0.04 | 0.041 | 102 | 85-115 | |
| Cobalt | mg/L | 0.04 | 0.039 | 98 | 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 | 96 | 85-115 | |

| MATRIX SPIKE & MATRIX SPIK | 3526508 | 3526508 | | | | | | | | | | |
|----------------------------|---------|-------------|-------|-------|--------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | | 60449068003 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Antimony | mg/L | <1.0 ug/L | 0.04 | 0.04 | 0.039 | 0.038 | 96 | 95 | 70-130 | 1 | 20 | |
| Arsenic | mg/L | <1.0 ug/L | 0.04 | 0.04 | 0.043 | 0.043 | 104 | 104 | 70-130 | 0 | 20 | |
| Cadmium | mg/L | <0.50 ug/L | 0.04 | 0.04 | 0.037 | 0.037 | 93 | 92 | 70-130 | 1 | 20 | |
| Cobalt | mg/L | 0.0012 | 0.04 | 0.04 | 0.041 | 0.041 | 100 | 99 | 70-130 | 1 | 20 | |
| Molybdenum | mg/L | 0.0023 | 0.04 | 0.04 | 0.043 | 0.043 | 101 | 101 | 70-130 | 0 | 20 | |
| Selenium | mg/L | <1.0 ug/L | 0.04 | 0.04 | 0.043 | 0.043 | 106 | 106 | 70-130 | 0 | 20 | |
| Thallium | mg/L | <1.0 ug/L | 0.04 | 0.04 | 0.035 | 0.035 | 86 | 86 | 70-130 | 0 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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| Project: | MW-FAA-5-Revise | d Report | | | | | | | | | | |
|--------------------|------------------|--------------|-------|----------|--------------|-------------|--------------|-------------|------------|-----|-----|-------------------|
| Pace Project No.: | 60449055 | | | | | | | | | | | |
| QC Batch: | 886919 | | Anal | ysis Met | hod: E | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Anal | ysis Des | scription: 6 | 6010 MET | | | | | | |
| | | | Labo | oratory: | F | Pace Analyt | ical Service | es - Kansas | s City | | | |
| Associated Lab San | nples: 604490550 | 001 | | | | | | | | | | |
| METHOD BLANK: | 3510971 | | | Matrix: | Water | | | | | | | |
| Associated Lab San | nples: 604490550 | 001 | | | | | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | |
| Paran | neter | Units | Res | sult | Limit | Analy | /zed | Qualifiers | 3 | | | |
| Lithium | | mg/L | | <0.010 | 0.010 | 0 03/21/24 | 4 16:46 | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 3510972 | | | | | | | | | | |
| | | | Spike | | LCS | LCS | % Re | ес | | | | |
| Paran | neter | Units | Conc. | F | Result | % Rec | Limi | ts (| Qualifiers | _ | | |
| Lithium | | mg/L | | 1 | 1.1 | 10 | 6 8 | 30-120 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUP | LICATE: 3510 | 973 | | 3510974 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| 5 | | 60448981001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | o <i>i</i> |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Lithium | mg/L | 0.033 | 1 | | 1 1.1 | 1.1 | 105 | 103 | 75-125 | 2 | 20 | |

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| Project: | MW-FAA-5-Revise | ed Report | | | | | | |
|-----------------------------|-----------------|-----------|-------------|-------------|-----------------|----------------|------------|--|
| Pace Project No.: | 60449055 | | | | | | | |
| QC Batch: | 887323 | | Analysis N | lethod: | SM 2540C | | | |
| QC Batch Method: | SM 2540C | | Analysis D | escription: | 2540C Total Dis | ssolved Solids | | |
| | | | Laboratory | /: | Pace Analytical | Services - Kar | nsas City | |
| Associated Lab Sa | mples: 60449055 | 001 | | | | | | |
| METHOD BLANK: | 3512243 | | Matr | x: Water | | | | |
| Associated Lab Sa | mples: 60449055 | 001 | | | | | | |
| | | | Blank | Reporting | | | | |
| Para | meter | Units | Result | Limit | Analyze | d Quali | fiers | |
| Total Dissolved Sol | ids | mg/L | <5. | 0 5. | 0 03/20/24 10 |):34 | | |
| | | | | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3512244 | | | | | | |
| | | | Spike | LCS | LCS | % Rec | | |
| Para | meter | Units | Conc. | Result | % Rec | Limits | Qualifiers | |
| Total Dissolved Sol | ids | mg/L | 2000 | 1860 | 93 | 80-120 | | |
| | | | | | | | | |
| SAMPLE DUPLICA | TE: 3512245 | | | | | | | |
| | | | 60448961001 | Dup | | Max | | |
| Para | meter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Dissolved Solids mg/L | | N | D <5. | 0 | | 10 | | |
| | | | | | | | | |
| SAMPLE DUPLICA | TE: 3512246 | | | | | | | |
| | | | 60449062003 | B Dup | | Max | | |
| Para | meter | Units | Result | Result | RPD | RPD | Qualifiers | |
| Total Dissolved Sol | ids | mg/L | 325 | 0 367 | 0 | 12 | 10 D6 | |

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| Project: | MW-FAA-5-Revised | Report | | | | | | |
|-------------------------------|------------------|--------|---------------|----------|--|-----|------------|--|
| Pace Project No.: | 60449055 | | | | | | | |
| QC Batch: | 886942 | | Analysis Meth | od: | SM 4500-H+B | | | |
| QC Batch Method: SM 4500-H+B | | | Analysis Desc | ription: | 4500H+B pH | | | |
| | | | Laboratory: | | Pace Analytical Services - Kansas City | | | |
| Associated Lab Sam | ples: 6044905500 |)1 | | | | | | |
| SAMPLE DUPLICAT | E: 3511036 | | | | | | | |
| | | | 60449101001 | Dup | | Max | | |
| Param | neter | Units | Result | Result | RPD | RPD | Qualifiers | |
| pH at 25 Degrees C Std. Units | | | 8.5 | 8 | 5.6 | 1 | 5 H6 | |

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| Project: | MW-FA | AA-5-Revised | d Report | | | | | | | | | | |
|--------------------|--------|--------------|-------------|-------|--------------------|-----------|-------------|--------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 60449 | 055 | | | | | | | | | | | |
| QC Batch: 887354 | | | | | Analysis Method: E | | EPA 300.0 | | | | | | |
| QC Batch Method: | EPA | 300.0 | | Anal | ysis Descri | ption: 3 | 300.0 IC An | ions | | | | | |
| | | | | Labo | oratory: | F | Pace Analy | tical Servic | es - Kansas | s City | | | |
| Associated Lab Sat | mples: | 604490550 | 001 | | 2 | | | | | | | | |
| METHOD BLANK: | 351242 | 22 | | | Matrix: W | ater | | | | | | | |
| Associated Lab Sar | mples: | 604490550 | 001 | | | | | | | | | | |
| | | | | Bla | nk | Reportina | | | | | | | |
| Para | meter | | Units | Res | sult | Limit | Anal | yzed | Qualifiers | 3 | | | |
| Chloride | | | mg/L | | <1.0 | 1.0 | 0 03/21/2 | 4 20:24 | | | | | |
| Fluoride | | | mg/L | | <0.20 | 0.2 | 0 03/21/2 | 4 20:24 | | | | | |
| Sulfate | | | mg/L | | <1.0 | 1.0 | 0 03/21/2 | 4 20:24 | | | | | |
| LABORATORY CO | NTROL | SAMPLE: | 3512423 | | | | | | | | | | |
| | | | | Spike | LC | S | LCS | % R | ec | | | | |
| Para | meter | | Units | Conc. | Res | sult | % Rec | Limi | its C | Qualifiers | | | |
| Chloride | | | mg/L | | 5 | 4.9 | 9 | 8 | 90-110 | | _ | | |
| Fluoride | | | mg/L | 2 | .5 | 2.5 | 9 | 9 | 90-110 | | | | |
| Sulfate | | | mg/L | | 5 | 5.0 | 10 | 1 | 90-110 | | | | |
| MATRIX SPIKE & M | | | ICATE: 3512 | 424 | | 3512425 | | | | | | | |
| | | | | MS | MSD | 0012120 | | | | | | | |
| | | | 60448568015 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | | mg/L | 2350 | 2500 | 2500 | 4770 | 4550 | 97 | 88 | 80-120 | 5 | 15 | |
| Fluoride | | mg/L | ND | 125 | 125 | 140 | 137 | 112 | 110 | 80-120 | 2 | 15 | |
| Sulfate | | mg/L | 116 | 250 | 250 | 391 | 382 | 110 | 107 | 80-120 | 2 | 15 | |

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



QUALIFIERS

Project: MW-FAA-5-Revised Report

Pace Project No.: 60449055

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

Pace

QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Project: | MW-FAA-5-Revised Report |
|-------------------|-------------------------|
| Pace Project No.: | 60449055 |

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|----------|-------------------|---------------------|
| 60449055001 | FAA-5-031424 | EPA 200.7 | 886918 | EPA 200.7 | 887028 |
| 60449055001 | FAA-5-031424 | EPA 3010 | 886919 | EPA 6010 | 887027 |
| 60449055001 | FAA-5-031424 | EPA 200.8 | 891017 | EPA 200.8 | 891033 |
| 60449055001 | FAA-5-031424 | EPA 245.1 | 887800 | EPA 245.1 | 888147 |
| 60449055001 | FAA-5-031424 | SM 2540C | 887323 | | |
| 60449055001 | FAA-5-031424 | SM 4500-H+B | 886942 | | |
| 60449055001 | FAA-5-031424 | EPA 300.0 | 887354 | | |

| DC#_Title: ENV-FRM-LENE-0099_Sam; Display Displa | | | | WO#:60449055 |
|--|---|---------------------------|-------------------------|---|
| Client Name: Client Name: Courier: FedEx UPS VIAK 4*Clay PEX ECI Pace Xrads Client Other Tracking #: Pece Shipping Label Used? Yes No Pecking Material: Bubble Wags Bubble Bags Foam No ne Other # Zohk Type of loc rest Blub None Cooler Temperature (*C): As-read 2. Corr. Factor - Blub None Cooler Temperature should be above freezing to 8*C Chain of Custody present: Prec No No No Date - Date | Pace | DC#_Title: ENV-FI | RM-LENE-0009_Sam | 60449955 |
| Client Name: | ANALYTICAL SERVICES | Revision: 2 | Effective Date: 01/12/2 | 022 -, |
| Courier: FedEx UPS VIAN 45 ¹ View PEX ECI Pace Xroads Clenk Other Tracking 8: Pace Shipping Label Used? Yes No | Client Name: | Evergy | | |
| Tracking #: Pace Shipping Label Used? Yes D No D No D Seals intact: Yes No D No D Packing Material: Buble Bags D Feam D No D Othor # C/L Thermometer Used: Type of lead Waterial: Wes D No D Date and initials of person Cooler Temperature (*C): As-read Corrector Corrected Date and initials of person Temporature should be above freezing to 6*C Date and initials of person Date and initials of person Chain of Custody present: Dive No No Date and initials of person Short Hold Time analyses (<t2hr):< td=""> Dives No No No Short Hold Time analyses (<t2hr):< td=""> Dives No No No Sufficient volume: Dives No No No Correct containers used: Dives No No No Dipreserved 5035A / TX1005/1006 aoils frozen in 48hrs? Dives No No No Samples and COC: Date / time /1D / analyses Dives No No No No Samples toolate matched COC: Date / time /1D (windle) Dives No No No No Diveservation in compliance? Mes No</t2hr):<></t2hr):<> | Courier: FedEx UPS | VIA K 4 SICiay | PEX 🗆 ECI 🗆 | Pace 🗆 Xroads 🗆 Client 🗖 Other 🗆 |
| Custody Seal on Cooler/Box Present: Yes / No Cooler/Box Present: / Yes / No Present: / Y / N Prese/ | Tracking #: | | Pace Shipping Label Use | ed? Yes □ No Z |
| Packing Material: Bubble Wrap D Bubble Bags D Foam D None D Other f 74 Thermometer Used: Type of leave Wat Blue None Date and initials of person Date and initials of person Cooler Temperature should be above freezing to 6°C Dream None Date and initials of person Chain of Custody relinquished: Dream None Date and initials of person Samples arrived within holding time: Dream None Date and initials of person Short Hold Time analyses (<72h): | Custody Seal on Cooler/Box | Present: Yes Z No I | Seals intact: Yes | |
| Cooler Temperature (*C): A s-read Q. (| Packing Material: Bubble Thermometer Used: | Wrap □ Bubble B | ags □ | None \Box Other $\not \in \mathcal{Z}_{\mathcal{P}}(\mathcal{L})$ |
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| Samples arrived within holding time: Image: Ima | Chain of Custody relinquished: | | | |
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| Sample labels match COC: Date / time / ID / analyses Image: Contained the second and the second | Filtered volume received for dis | solved tests? | □Yes □No □/Ń/A | |
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| Containers requiring pH preservation in compliance? Ives No N/A List sample IDs, volumes, lot #'s of preservative and the date/time added. (HNOs, H,SOs, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) Lot#: Ives No Ives Interview Cyanide water sample checks: | Samples contain multiple phase | es? Matrix: t 🗘 | | |
| (HNO3, H2SO4, HCI<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) (Cyanide water sample checks: ead acctate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve) Pyes Potassium iodide test strip turns blue/purple? (Preserve) Pyes No Prip Blank present: Pyes Pyes Initial additional labels attached to 5035A / TX1005 vials in the field? Pyes No Preson Contacted: Date/Time: Project Manager Review: Project Manager Review: | Containers requiring pH preserv | ation in compliance? | | List sample IDs, volumes, lot #'s of preservative and the |
| Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: O + / 8 T Cyanide water sample checks: Lead acetate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve) Pyes No Potassium iodide test strip turns blue/purple? (Preserve) Pyes No Pyes Pyes No Pyes Pyes No Pyes Pyes No Pyes | (HNO ₃ , H ₂ SO ₄ , HCI<2; NaOH>9 Su | lfide, NaOH>10 Cyanide) | I.7.107 | date/time added. |
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| Potassium iodide test strip turns blue/purple? (Preserve) IYes Irip Blank present: IYes Irip Blank present: IYes Ideadspace in VOA vials (>6mm): IYes Image: Interview: Image: Image | Lead acetate strip turns dark? (I | Record only) | □Yes □No | 2 |
| Trip Blank present: Image: State | Potassium iodide test strip turns | blue/purple? (Preserve) | Yes No | |
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| Additional labels attached to 5035A / TX1005 vials in the field? Copy COC to Client? Y / N Field Data Required? Y / N Person Contacted: Comments/ Resolution: Comments/ Resolution: Project Manager Review: Date: | Samples from USDA Regulated | Area: State: | | |
| Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N Person Contacted: Date/Time: Comments/ Resolution: Comments/ Resolu | Additional labels attached to 50 | 35A / TX1005 vials in the | field? 🗆 Yes 🗆 No 🗖 N/A | |
| Person Contacted: Date/Time: Comments/ Resolution: | Client Notification/ Resolution | Copy C | OC to Client? Y / N | Field Data Required? Y / N |
| Comments/ Resolution: | Person Contacted: | D | ate/Time: | |
| Project Manager Review: | Comments/ Resolution: | | | |
| Project Manager Review: | | | | |
| | Project Manager Review | | Date | |

| 2 | Pace [®] Location Reques | sted (City/Sta | ate). | | | | | | | | | | | _ | | | _ | _ | | | | _ | | | |
|------------------------|---|-------------------|------------|------------|---|----------------|------------------------|----------------|------------|------------|------------|--------|----------|----------|-----------|-----------|-----------|----------|---------------|---------------|----------|-------------------------------|---------------------------------------|----------------|------------|
| 1 Paro | Pace Analytical Kansas | lea (enty) sta | ice, | | CHAIN-OF- | CUSTODY | Analytical | Request | Doci | umen | t | | | | | LABU | SE ON | LY- Af | fix Wo | rkorde | ər/Log | in Label H | ere | | |
| -1 acc | 9608 Loiret Blvd., Lenexa, K | S 66219 | | | Chain-of-Cu | stody is a LEG | AL DOCUMENT - Co | mplete all rel | evant fie | elds | | | | XAS | 20 | | | | | | | | | | |
| Company Name: | Evergy Kansas Central, I | nc. | | | Contact/Report | o: Jake Hu | mphrov | | _ | | | 4 | 192 | | 35 | | | - | | | | ~ | | | |
| Street Address: | 818 S Kansas Avenue. To | Doeka, KS 666 | 12 | | Phone # | (012)ca | | | | | | | A | 4 D; | | | (| 0 | 40 | 17 | 05 | 2 | | | |
| 1 | ,,,,,,,,,,,,,,,,,,, . | | | | E-Mail: | iaka hu | | | | | | | 23 | S., | | | | _ | | | | | | | |
| | | | | | Co E Maile | jake.nu | mpnrey@evergy | .com | | | | | | 10.1 | 2.42 | | Scan | QR C | ode fo | ır instru | uction | S | | | |
| Customer Project #: | | | | | CC E-IVIAII: | skaney | @naleyaldrich.co | m | | | | | | | | | | | | | | - | | | |
| Project Name | MM/-EAA.E | | | | 1 | | | | | | | | | | Spec | ify Conta | ainer Si | ze ** | | | | **Container S 125mL (5) 10 | ze: (1) 1L, (2) 50 Jml (6) 40ml vi | 0mL, (3) 250 | .mL, (4) |
| in oject name. | WW-FAA-J | | | | Invoice I o: | Jeffrey | Center | | | | | 3 | 2 | 3 | | | | | | | | TerraCore, (9) | 90mL, (10) Othe | r | :, (0) |
| Site Collection Info | (Escility ID (as applicable). | | | | Invoice E-Mail: | evergya | ap@onlinecaptur | ecenter.con | n | | | | | Ident | tify Cont | ainer Pr | eserva | tive Typ | e*** | | | *** Preservat | ve Types: (1) No | ne, (2) HNO3 | 5, (3) |
| site collection into | raciiity iD (as applicable): | | | | Purchase Order # | (if WSTR-2 | 000095397 | | | | | 2 | 1 | 1 | | | | | | | | H2SO4, (4) HC | ., (5) NaOH, (6) Z | n Acetate, (7 | 7) |
| | | | | | Oursta # | | | | | | | | | | Ar | alysis R | equest | ed | | | | MeOH, (11) O | her | (9) ASCOLOIC A | ACIG, (10) |
| Time Zone Collecter | | | 7 () (| | Quote #: | | | | | | | s s | | | | | | | | 6 11 | 1 | Proj. Mg | r: | | 1a |
| Data Deliverables: | | Regulatory Pr | i []t | | County / State of | igin of sample | (s): Kansas | . 1 | | | | list | | | | | | | | | | Alice S | biller | | ied fo |
| | | Inegulatory PT | ogram (D¥ | , nena, ei | .c.) as applicable: | Reportat | pie [] Yes [) | INO | | | | see | sp | | | | | | | | | AcctNun | / Client ID: | | entif |
| []Levelli [] | Level III [] Level IV | | Ru | sh (Pre-a | approval require | d): | DW PWS | D # or WW Pe | ermit # as | applicabl | e | | Soli | | | | | | | | 1 1 | E Table # | | | - ei |
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| [] EQ015 | | Date Results | | | | | Field Filtered (if a | pplicable): [|] Yes | [X]No | 0 | 10/ | solv | 8 | | | | | | 1 | 6 1 | Profile / | Template: | | ampl |
| []Other | | Requested: | | | | | Analysis: | | | | | / 60 | Dis | S, F, | | | | | | í ľ | 1 | 9655 | | | DD-CC |
| (B), Vapor (V), Surfa | ert in Matrix box below): Drini ace Water (SW) Sediment (SED | l) Sludge (SL) C | (), Ground | Water (GW | Waste Water (\ Biosolid (RS) | VW), Product (| P), Soil/Solid (SS), C | il (OL), Wipe | (WP), Ti | ssue (TS), | , Bioassay | 8.0 | otal | Ū | | | | | | | 6 1 | Prelog / | 3ottle Ord. ID | | |
| | | I anope (ac), c | | Comp / | Composi | te Start | Collected or Co | mposite End | 1 # | Res (| Chlorine | 120 | Г С | 0.0 | | | | | | | 6 1 | EZ 30 | 10040 | | rvati |
| | Sustomer Sample ID | | Matrix | Grab | Date | Time | Date | Time | Cont. | Results | s Units | 00.7 | 240 | Ъ, З | | | | | | | | Sa | nple Comm | nent | Prese |
| | FAA-5-031324 | | WT | Grab | | | 3/13/2024 | 1010 | 3 | 1.000 | | X | X | X | | | | | - | | | | | | + |
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| Additional Instruction | ons from Pace*: | | _(| | | Collected By: | | | | | 1 | Custon | nor Por | narks / | Special | Conditio | | scible b | Jazarde | | | | | | |
| 200.7 B,Ca,Ba,Be,C | r,Pb | | | | | (Printed Nam | ne) | Matt Va | nderPut | ten | | | ner ner | narka / | эресіаі | conditio | JII3 / FC | | 18281 43 | • | | | | - | |
| 200.8 Sb,As,Co,Mo | ,Se,Tl | | | | | Signature: | | | | | | # Coo | olers: | | Thermor | neter ID: | _ | Correct | on Facto | or (°C): | Obs. | Tempt ("C) | Corrected Ten | np. (°C) | On Ice: |
| 6010 LI / 245.1 Hg | | | | | | | | | | | | | | , i | N | N | | ~ | 3 | | 2 | 6 | 2~3 | 2 | |
| Relinquished by/Compa | iny: (Signature) | 1 | | Date/Time: | | | Received by/Compan | y: (Signature) | - | | 0+1 | 0 | 1 | | Date/Tir | pe: | 1-1 | 0 | 122 | 1. | Tracking | Number: | | | |
| Relinquiched by/Compo | 1/actor | Sest | ngineers | | 03/14/2024 / : | .730 | | | <u></u> | 1 | Far | C | | | 5 | 14 | 24 | | <u>()</u> | 0 | | | | | |
| meaniquistied by/compa | iny, (aignaturie) | | | Date/Time: | | | Received by/Compan | y: (Signature) | | | | | | | Date/Tir | ne: | | | | r | Deliver | ed by: []]r | - Person [|] Courier | |
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| L <u>÷</u> | | | | | | | | | | | | | | | | | | | | | Pag | e: 1 | of | T | |

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

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Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

April 10, 2024

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

RE: Project: JEC FAL CCR RADCHEM Pace Project No.: 60449057

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2024. 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 alice.spiller@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Andrew Watson, Haley & Aldrich





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: JEC FAL CCR RADCHEM Pace Project No.: 60449057

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



SAMPLE SUMMARY

Project:JEC FAL CCR RADCHEMPace Project No.:60449057

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 60449057001 | FAA-3-031424 | Water | 03/14/24 09:20 | 03/14/24 17:30 |
| 60449057002 | FAA-4-031324 | Water | 03/13/24 16:30 | 03/14/24 17:30 |
| 60449057003 | FAA-6-031424 | Water | 03/14/24 10:05 | 03/14/24 17:30 |
| 60449057004 | JEC-FAA-DUP-031424 | Water | 03/14/24 10:05 | 03/14/24 17:30 |



SAMPLE ANALYTE COUNT

Project:JEC FAL CCR RADCHEMPace Project No.:60449057

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|----------------------|------------|
| 60449057001 | FAA-3-031424 | EPA 903.1 | CLM | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60449057002 | FAA-4-031324 | EPA 903.1 | CLM | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60449057003 | FAA-6-031424 | EPA 903.1 | CLM | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60449057004 | JEC-FAA-DUP-031424 | EPA 903.1 | CLM | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg



Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

Method: EPA 903.1

Description:903.1 Radium 226Client:Evergy Kansas Central, Inc.Date:April 10, 2024

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:



Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

Method: EPA 904.0

Description:904.0 Radium 228Client:Evergy Kansas Central, Inc.Date:April 10, 2024

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:



Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

Method: Total Radium Calculation

Description:Total Radium 228+226Client:Evergy Kansas Central, Inc.Date:April 10, 2024

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.

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Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

| Sample: FAA-3-031424 PWS: | Lab ID: 60449057 Site ID: | 001 Collected: 03/14/24 09:20 Sample Type: | Received: | 03/14/24 17:30 N | Aatrix: Water | |
|------------------------------|------------------------------|---|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.233 ± 0.396 (0.699) C:NA T:85% | pCi/L | 03/29/24 14:46 | 13982-63-3 | |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.526 ± 0.403 (0.792) C:83% T:75% | pCi/L | 03/29/24 11:35 | 15262-20-1 | |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.759 ± 0.799 (1.49) | pCi/L | 04/04/24 11:19 | 7440-14-4 | |

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Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

| Sample: FAA-4-031324 PWS: | Lab ID: 604490 Site ID: | 057002 Collected: 03/13/24 16:30 Sample Type: | Received: | 03/14/24 17:30 M | latrix: Water | |
|------------------------------|-----------------------------|---|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical S | ervices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.000 ± 0.400 (0.819) C:NA T:90% | pCi/L | 03/29/24 14:46 | 13982-63-3 | |
| | Pace Analytical S | ervices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.488 ± 0.443 (0.904) C:84% T:76% | pCi/L | 03/29/24 11:35 | 15262-20-1 | |
| | Pace Analytical S | ervices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.488 ± 0.843 (1.72) | pCi/L | 04/04/24 11:19 | 7440-14-4 | |

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Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

| Sample: FAA-6-031424 | Lab ID: 60449057 | 7003 Collected: 03/14/24 10:05 | Received: | 03/14/24 17:30 N | latrix: Water | |
|----------------------|-----------------------------|---------------------------------------|-----------|------------------|---------------|------|
| PWS: | Site ID: | Sample Type: | | | | |
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Serv | vices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | -0.759 ± 0.579 (1.34) C:NA T:85% | pCi/L | 03/29/24 14:46 | 13982-63-3 | |
| | Pace Analytical Serv | rices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.684 ± 0.368 (0.647) C:87% T:81% | pCi/L | 03/29/24 11:35 | 15262-20-1 | |
| | Pace Analytical Serv | rices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.684 ± 0.947 (1.99) | pCi/L | 04/04/24 11:19 | 7440-14-4 | |

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Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

| Sample: JEC-FAA-DUP-031424 PWS: | Lab ID: 6044905 Site ID: | 7004 Collected: 03/14/24 10:05 Sample Type: | Received: | 03/14/24 17:30 N | Aatrix: Water | |
|------------------------------------|-----------------------------|--|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Ser | vices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.616 ± 0.524 (0.736) C:NA T:82% | pCi/L | 03/29/24 14:46 | 13982-63-3 | |
| | Pace Analytical Ser | vices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.382 ± 0.363 (0.740) C:83% T:80% | pCi/L | 03/29/24 11:35 | 15262-20-1 | |
| | Pace Analytical Ser | vices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.998 ± 0.887 (1.48) | pCi/L | 04/04/24 11:19 | 7440-14-4 | |



QUALITY CONTROL - RADIOCHEMISTRY

| Project: | JEC FAL CCR RA | DCHEM | | | | | |
|----------------------------|-----------------|-------------------|---------------------------|-------------------|----------------------|------------|--|
| Pace Project No.: | 60449057 | | | | | | |
| QC Batch: | 656418 | | Analysis Method: | EPA 903.1 | | | |
| QC Batch Method: EPA 903.1 | | | Analysis Description: | 903.1 Radium-22 | 6 | | |
| | | | Laboratory: | Pace Analytical S | ervices - Greensburg | g | |
| Associated Lab San | nples: 60449057 | 001, 60449057002 | , 60449057003, 6044905700 |)4 | | | |
| METHOD BLANK: | 3197469 | | Matrix: Water | | | | |
| Associated Lab San | nples: 60449057 | 001, 60449057002 | , 60449057003, 6044905700 |)4 | | | |
| Paran | neter | Act ± Ur | nc (MDC) Carr Trac | Units | Analyzed | Qualifiers | |
| Radium-226 | | 0.000 ± 0.222 (0. | 498) C:NA T:83% | pCi/L | 03/29/24 14:46 | | |

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.



QUALITY CONTROL - RADIOCHEMISTRY

| Project: | JEC FAL CCR RA | DCHEM | | | | |
|--------------------|-----------------|---|-----------------|----------------------|------------|--|
| Pace Project No.: | 60449057 | | | | | |
| QC Batch: | 656421 | Analysis Method: | EPA 904.0 | | | |
| QC Batch Method: | EPA 904.0 | Analysis Description: | 904.0 Radium 2 | 28 | | |
| | | Laboratory: | Pace Analytical | Services - Greensbur | g | |
| Associated Lab San | nples: 60449057 | 001, 60449057002, 60449057003, 6044905700 |)4 | | | |
| METHOD BLANK: | 3197475 | Matrix: Water | | | | |
| Associated Lab San | nples: 60449057 | 001, 60449057002, 60449057003, 6044905700 |)4 | | | |
| Paran | neter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers | |
| Radium-228 | | 0.246 ± 0.352 (0.756) C:87% T:68% | pCi/L | 03/29/24 11:35 | | |

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.



QUALIFIERS

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60449057

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:JEC FAL CCR RADCHEMPace Project No.:60449057

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|---------------------|
| 60449057001 | FAA-3-031424 | EPA 903.1 | 656418 | | |
| 60449057002 | FAA-4-031324 | EPA 903.1 | 656418 | | |
| 60449057003 | FAA-6-031424 | EPA 903.1 | 656418 | | |
| 60449057004 | JEC-FAA-DUP-031424 | EPA 903.1 | 656418 | | |
| 60449057001 | FAA-3-031424 | EPA 904.0 | 656421 | | |
| 60449057002 | FAA-4-031324 | EPA 904.0 | 656421 | | |
| 60449057003 | FAA-6-031424 | EPA 904.0 | 656421 | | |
| 60449057004 | JEC-FAA-DUP-031424 | EPA 904.0 | 656421 | | |
| 60449057001 | FAA-3-031424 | Total Radium Calculation | 659757 | | |
| 60449057002 | FAA-4-031324 | Total Radium Calculation | 659757 | | |
| 60449057003 | FAA-6-031424 | Total Radium Calculation | 659757 | | |
| 60449057004 | JEC-FAA-DUP-031424 | Total Radium Calculation | 659757 | | |
| | | | WO#:6044 | 9057 |
|--|---|--------------------------|-------------------------------------|----------------------|
| Pace MALITICA SERVICES | DC#_Title: ENV-F | RM-LENE-0009_Samp | 60449057 | |
| Client Nomer | | | 2 | |
| | -vergy | | | |
| Courier: Fedex L OPS | | | | |
| Custody Scal on Cooler/Per | | Pace Snipping Laber Used | | |
| Packing Material: Bubbl | e Wran D Bubble F | ags □ Foam □ | | '(|
| Thermometer Used: 1 | זען <u>א</u> ויין דער דער גער גער גער גער גער גער גער גער גער ג | pe of Ice: Wet Blue Nor | | |
| Cooler Temperature (°C): | As-read 195 Corr | Factor 0 7 Correct | Date and i | nitials of person |
| Temperature should be above free | szing to 6°C | | | |
| Chain of Custody present: | | Yes 🗆 No 🗆 N/A | | |
| Chain of Custody relinguished | | | | |
| Samples arrived within holding | time: | ∕ ØYes □No □N/A | | |
| Short Hold Time analyses (< | 72hr): | | | |
| Rush Turn Around Time requ | uested: | | | |
| Sufficient volume: | | | | |
| Correct containers used: | | ✓ ✓ Yes □No □N/A | | |
| Pace containers used: | | , D∕Yes ⊡No ⊡N/A | | |
| Containers intact: | | ZYes DNo DN/A | | |
| Unpreserved 5035A / TX1005/ | 1006 soils frozen in 48hrs | | | |
| Eiltered volume received for div | ssolved tests? | | | |
| Sample labels match COC: Da | te / time / ID / analyses | | | |
| Samples contain multiple phas | es? Matrix: | | | |
| Containers requiring pH preser | vation in compliance? | | ist sample IDs, volumes, lot #'s of | preservative and the |
| HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Si | ulfide, NaOH>10 Cyanide) | 7" | ate/time added. | |
| Exceptions: VOA, Micro, O&G, K | S TPH, OK-DRO) | LOT#: | | |
| Lead acetate strip turns dark? | (Record only) | □Yes □No | | |
| Potassium iodide test strip turn | s blue/purple? (Preserve) | □Yes □No | | |
| rip Blank present: | | □Yes □No □ / N/A | | |
| leadspace in VOA vials (>6m | m): | □Yes □No ☑N/A | | |
| Samples from USDA Regulated | d Area: State: | | | |
| Additional labels attached to 50 |)35A / TX1005 vials in the | field? 🗆 Yes 🗆 No 🖌 N/A | | |
| lient Notification/ Resolutio | n: Copy (| COC to Client? Y / N | Field Data Required? Y / N | |
| Person Contacted: | | Date/Time: | | |
| Comments/ Resolution: | | | | |
| | | | | |
| Project Manager Review | | Data | | |
| · · · | | | - | |

Qualtrax Document ID: 30468

| | Pass® Location Passes | ted (City (Chesh | - 12 | _ | | | | | | | | r | | | | | _ | | | | | |
|--|---------------------------------|--------------------|-------------|------------|----------------------|------------------|------------------------|------------------|-----------|--------------|------------------|------------|-------------|--------------|-----------|-----------|-------------|-------------|----------|--------------------|--|---------------------|
| Base | Pace Analytical Kansas | teo (City/Stat | .e): | | | | (Applytical F | Poquort. | Deer | | | | | | LAE | B USE O | NLY- Affin | (Workc | order/Lo | ogin Label H | ere | |
| /-Pace | 9608 Loiret Blvd., Lenexa, KS | 5 66219 | | , | Chain of C | interdu in a LEG | A DOCUMENT COR | vequest | DUCL | inen. | | | m ** | AUDIT.SV | | | | | | | | |
| 1 | | | | | chain-or-cu | ustody is a LEG | AL DOCUMENT - COR | riplete all rele | evant ne | las | | | | \$25.04 | 32 | | | \sim | | | | |
| Company Name: | Evergy Kansas Central, Ir | ъ. | | | Contact/Report | To: Jake Hu | Imphrey | | | | | 1 | | | ¥. | 6 | dyc | 14(| 05 | 7 | | |
| Street Address: | 818 S Kansas Avenue, To | peka, KS 6661 | 2 | | Phone #: | (913)63 | 4-0605 | | | | | | 100 | | X | Ŷ | 0 / 1 | | | / | | |
| | | | | | E-Mail: | iake.hu | mphrev@evergy. | com | | | | | 60 | AL (A | 5 | Scar | | te for ir | nstructi | ions | | |
| | | | | | Cc E-Mail | skanov | @balovaldrich.com | - | | | | | CE W | Mail Charles | | 000 | | | 1011 000 | 0113 | | |
| Customer Project # | | | | | | Skalley | whateyalunch.com | 11 | | | | | | _ | | | | | | later and a second | | 0 1 10 |
| | | | | | | | | | | | | | | | Specify C | ontainer | Size ** | | | 125mL, (5) 10 | .ze: (1) 1L, (2) 500mL, (3) 250 0mL, (6) 40mL vial, (7) EnCor | JmL, (4) re. (8) |
| Project Name: | JEC FAL CCR RADCHEM | | | | Invoice To: | Jeffrey | Center | | | | | 1 | 1 | | | | | | | TerraCore, (9) | 90mL, (10) Other | |
| | | | | | Invoice E-Mail: | evergya | ap@onlinecapture | center.com | 1 | | | 1 | | Identify | Containe | r Preserv | ative Type | *** | | *** Preservat | ve Types: (1) None, (2) HNO | 3, (3) |
| Site Collection Info/ | /Facility ID (as applicable): | | | | Purchase Order # | # (if WSTR-2 | 000095397 | | | | | 2 | 2 | | | 1 | | 0 | | H2504, (4) HC | l, (5) NaOH, (6) Zn Acetate, (| (7) |
| | | | | | applicable): | | | | | | | - | - | <u> </u> | Analys | is Reques | sted | | | | od, Thiosulfate, (9) Ascorbic | Acid, (10) |
| | | | | | Quote #: | | | | | | | | T | | | <u> </u> | | | | Droj Me | | |
| Time Zone Collecter | d: [] AK [] PT [] | MT [X]CT | []E | Т | County / State o | rigin of sample | (s): Kansas | | | | | | sts | | | | | | | | niller | 1 for |
| Data Deliverables: | | Regulatory Pro | gram (DW | , RCRA, et | c.) as applicable: | Reportal | ble []Yes [X | 1 No | _ | | | - | hee | | | | | | | AcctNur | o / Client ID: | ified |
| | | 1.51.11.11 | | | | | | | | | | | 0 V | | | | | | | > | ry chemit ib. | dent |
| []Levelli [] | Level III [] Level IV | | Ru | sh (Pre-a | pproval require | ed): | DW PWS | D # or WW Pe | rmit # as | applicable | | | ğ | | | | | | | Table #: | | |
| LIFOUR | | [] Same Da | ay []1C | ay [] 2 | Day [] 3 Day [|] Other | | | | | | | ned | | | | | | | Class | | le un |
| [] EQUIS | | Date Results | | | | | Field Filtered (if ap | plicable): [|] Yes | [X]No | 1 | | ļē | | | | | - 11 | | Profile / | Template: | amp |
| [] Other | | Requested: | | | | | Analysis: | | | | | | Col | | | 1 | | | | 9655 | | s s |
| * Matrix Codes (Ins | ert in Matrix box below): Drink | (ing Water (DW), | , Ground \ | Nater (GW | /), Waste Water (| WW), Product (| P), Soil/Solid (SS), O | il (OL), Wipe | (WP), Ti | ssue (TS), | Bioassay | 56 | 38 | | | | | | | Prelog / | Bottle Ord. ID: | |
| (B), Vapor (V), Surfa | ace Water (SW),Sediment (SED |), Sludge (SL), Ca | ulk (CK), L | eachate (L | L), Biosolid (BS), (| Other (OT) | | | | | | 2 | 12 | | | | | | | EZ 30 | 80037 | /atio |
| | Customer Sample ID | | Matrix * | Comp / | Compos | ite Start | Collected or Con | nposite End | # | Res. C | hlorine | 1 <u>-</u> | 1 H | | - 1 | | | - 15 | | - | | sen |
| | outonier oumpie ib | | | Grab | Date | Time | Date | Time | Cont. | Results | Units | Lag 1 | Ra | | | | | | | Sa | nple Comment | Pre |
| | FAA-3-031424 | | wT | Grab | - | 2 | 3/14/2024 | 920 | 2 | ۲ | | X | X | | | | | | | | | |
| | FAA-4-031324 | | WT | Grab | | 3.00 | 3/13/2024 | 1630 | 2 | - 22 | 1940 | X | X | | | | | | | | | |
| | FAA-6-031424 | | wT | Grab | 193 | | 3/14/2024 | 1005 | 2 | | (#) | X | X | | | | | | | | | |
| | JEC-FAA-DUP-031424 | | wT | Grab | <u>ن</u> | ۲ | 3/14/2024 | 1005 | 2 | | 0.52 | X | X | | | | | | | | | |
| | | | | | | | | | | | | | 1 | | | | | | | | | |
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| Additional Instructi | ions from Pace®: | | | | | Collected By | : | Adatt Mar | darBit | | | Custo | mer Rer | marks / Sp | ecial Cor | ditions / | Possible Ha | zards: | | | | |
| | | | | | | (Printed Nar | ne) | WIGLL VOI | laerrat | ten | | | | | | | | | _ | | | |
| | | | | | | Signature: | | | | | | # Co | oolers: | П | | ò | Correctio | a Factor (* | c): 0 | ibs Temp. (C) | Corrected Temp. ("C) | On Ice: |
| Relinquished by/Compa | any: (Sjengture) | | _ | Date/Time: | : | | Received by/Company | : (Signature) | | m A . | OA I | 6 | | 0 | ate/Time: | <u>6</u> | | 52 | Traci | king Number: | 6.1.00 | |
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Subditting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

| In | ternal Transfer Ch | iain (| of Custoo | ly — | · · · · · · · · · · · · · · · · · · · | | | | - | | | | | | | Annual | | |
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| Wo | rkorder: 60449057 Work | order N | lame: JEC FA | L CCR RADC | HEM | | | Own | er Rece | ived | Dat | te: | 3/14/2024 | Res | sults | Reque | sted B | <i>(</i> : 4/12/2024 |
| Rep | ort To | | Subcontrac | ct To | | | | | | | | | Request | ed Anal | ysis | | | |
| Alic Pac 960 Len Pho | e Spiller e Analytical Kansas 8 Loiret Blvd. exa, KS 66219 ne (913)599-5665 | | Pace / 1638 / Suites Green Phone | Analytical Pittsb Roseytown Roa 2,3, & 4 sburg, PA 1560 2 (724)850-5600 | urgh d)1) | P | reservi | ed Con | tainers | QC Sheets | Radium 226 | um 228 and combined | | | | | | |
| ltern | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | HN03 | | | | 2011 S | | Radiu | | and in the second s | | | | LAB USE ONLY |
| 1 | FAA-3-031424 | PS | 3/14/2024 09:20 | 60449057001 | Water | 2 | | | | X | x | X | | | | | | 001 |
| 2 | FAA-4-031324 | PS | 3/13/2024 16:30 | 60449057002 | Water | 2 | | 1 | | X | X | X | | | | | | 002 |
| 3 | FAA-6-031424 | PS | 3/14/2024 10:05 | 60449057003 | Water | 2 | | | | Х | Х | X | | | | | | 003 |
| 4 | JEC-FAA-DUP-031424 | PS | 3/14/2024 10:05 | 60449057004 | Water | 2 | | | | X | Х | X | | | | | | 004 |
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| Tran 1 2 3 | sfers Released By | <u> </u> | Date/Time る・/ タース \(| Received B | y Jan | k s | boti | - Pag | Date/Tin | ne {43 | к К | (S sar | mple location: | RECEIN | Com /ING | ments | | |
| Coc | pler Temperature on Receipt | | <u>°C Cus</u> | tody Seal Y | ' or (🕅 |) | 1 | Rece | eived or | <u>lce</u> | Y | or | N) | | Sam | nples Ir | ntact (| 7) or N |

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



ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greenship 66

Effective Date: 01/04/2024

04/09/24 Due Da

| Client Name: | Pace | KS |
|--------------|------|----|
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| Courier: IFed Ex 🗌 UPS 🗌 USPS 🗍 Client | 🗌 Com | mercia | al 🗌 P | ace 🗌 Other | Initial / Date |
|---|-------------------|--|----------------|---|---------------------------------------|
| Tracking Number: 7146237 | 62 | 22 | 8 | · | Examined By: 3/9/24 |
| Custody Seal on Cooler/Box Present: | es DN pe of Ic | o e: W | Seals /et B | Intact: 🛛 Yes 🕅 No lue None | Labeled By: 3/19/24 Temped By: |
| Cooler Temperature: Observed Temp Temp should be above freezing to 6°C | | °C | Corre | ction Factor: | •C Final Temp: •C |
| | | т | | pH paper Lot# | D.P.D. Residual Chlorine Lot # |
| Comments: | Yes | No | NA | 100093 | . |
| Chain of Custody Present | | <u> </u> | | 1. | |
| Chain of Custody Filled Out: | | | ļ | 2. | |
| -Were client corrections present on COC | - | | | | |
| Chain of Custody Relinquished | | <u> </u> | | 3. | |
| Sampler Name & Signature on COC: | | | ļ | 4. | |
| Sample Labels match COC: | | | | 5. | |
| -Includes date/time/ID Matrix: | | \mathcal{M} | | | |
| Samples Arrived within Hold Time: | | 1 | | 6. | |
| Short Hold Time Analysis (<72hr | | | | 7. | |
| remaining): | | | | | |
| Rush Turn Around Time Requested: | | | | 8. | |
| Sufficient Volume: | | | | 9. | |
| Correct Containers Used: | | | | 10. | |
| -Pace Containers Used | - | | | | |
| Containers Intact: | | | | 11. | |
| Orthophosphate field filtered: | | | | 12. | |
| Hex Cr Aqueous samples field filtered: | | | \sim | 13. | |
| Organic Samples checked for dechlorination | | | | . 14: | |
| Filtered volume received for dissolved tests: | | | | 15: | |
| All containers checked for preservation: | | ~ | | 16. | |
| exceptions: VOA, coliform, TOC, O&G, | | | | PHKO | |
| All containers meet method preservation requirements: | | | | Initial when completed 55 Lot# of added Preservative | Date/Time of Preservation |
| 8260C/D: Headspace in VOA Vials (> 6mm) | | | | 17. | |
| 624.1: Headspace in VOA Vials (0mm) | | | | 18. | |
| Radon: Headspace in RAD Vials (0mm) | | | | 19. | |
| Trip Blank Present: | | \square | | Trip blank custody s | seal present? YES or NO |
| Rad Samples Screened <.05 mrem/hr. | | | | Initial when JS Date: | 3/19/24 Survey Meter SN: 2.SC/U3RO |
| 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.

PACE Analytical Services Ra-226 Analysis

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Quality | Jonnio S | ample Pe | Hormanice Assessment | | |
|--|----------------|--|---|----------------------------|--------------------|
| Free Analytical" | | | | | |
| Pace Analytical | | | Analyst Must Manually Enter All Fields Highlighted in | Yellow. | |
| www.pacelabs.com Test: | Ra-226 | | | | |
| Analyst | CLM | | Sample Matrix Spike Control Accordment | MS/MSD 1 | MS/MSD 2 |
| Analysi | | | Sample Matrix Spike Control Assessment | 1013/10130 1 | 1010/10100 2 |
| Date: | 3/21/2024 | | Sample Collection Date: | | |
| Batch ID: | 78253 | | Sample I.D. | and the second second | the set of the set |
| Matrix: | DW | | Sample MS I.D. | | |
| | | _ | Sample MSD I.D. | Freedor (1993) | |
| Method Blank Assessment | | 1 | Spike I.D.: | | |
| MB Sample ID | 3197469 | | MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| MB concentration: | 0.000 | | Spike Volume Used in MS (mL): | | |
| M/B Counting Uncertainty: | 0.222 | | Spike Volume Used in MSD (mL): | IN SKIIN IN THE LOS IN THE | |
| MB MDC: | 0.498 | | MS Aliquot (L, g, F): | | |
| MB Numerical Performance Indicator: | 0.00 | | MS Target Conc.(pCi/L, g, F); | | |
| MB Status vs Numerical Indicator: | NI/A | | MSD Aliquot (L. g. F): | | |
| MB Status vs. MDC: | Pass | 1 | MSD Target Conc. (pCi/L.g. F): | | |
| MD Status vs. MDS. | 1 435 | 1 | MS Spike Uncertainty (calculated): | | |
| Laboratory Control Servels Accessment | LCCD /V or NV2 | V | MSD Spike Uncertainty (calculated): | | |
| Laboratory Control Sample Assessment | | 1 | MOD Spike Oficertainty (calculated). | | |
| | LUS/8253 | LCSD/8253 | Sample Result | | |
| Count Date: | 3/29/2024 | 3/29/2024 | Sample Result Counting Uncertainty (pCI/L, g, F): | | |
| Spike I.D.: | 23-063 | 23-063 | Sample Matrix Spike Result. | | |
| Spike Concentration (pCi/mL): | 32.302 | 32.302 | Matrix Spike Result Counting Uncertainty (pCI/L, g, F): | | |
| Volume Used (mL): | 0.10 | 0.10 | Sample Matrix Spike Duplicate Result: | | |
| Aliquot Volume (L, g, F): | 0.652 | 0.652 | Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | | |
| Target Conc. (pCi/L, g, F): | 4.957 | 4.951 | MS Numerical Performance Indicator: | | |
| Uncertainty (Calculated): | 0.233 | 0.233 | MSD Numerical Performance Indicator: | | |
| Result (pCi/L, g, F): | 5.769 | 6.204 | MS Percent Recovery: | | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 1.230 | 1.222 | MSD Percent Recovery: | | |
| Numerical Performance Indicator: | 1.27 | 1.98 | MS Status vs Numerical Indicator: | | |
| Percent Recovery: | 116.36% | 125.32% | MSD Status vs Numerical Indicator: | | |
| Status vs Numerical Indicator: | N/A | N/A | MS Status vs Recovery: | | |
| Status vs Recovery: | Pass | Pass | MSD Status vs Recovery: | , , | |
| Upper % Recovery Limits: | 133% | 133% | MS/MSD Upper % Recovery Limits: | 1 | |
| Lower % Recovery Limits: | 73% | 73% | MS/MSD Lower % Recovery Limits: | | |
| | | | | | |
| Duplicate Sample Assessment | | | Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
| | | | | | |
| Sample I.D.: | LCS78253 | Enter Duplicate | Sample I.D. | | |
| Duplicate Sample I.D. | LCSD78253 | sample IDs if | Sample MS I.D. | | |
| Sample Result (pCi/L, g, F) | 5.769 | other than | Sample MSD I.D. | , | |
| Sample Result Counting Uncertainty (pCi/L, g, F) | 1.230 | LCS/LCSD in | Sample Matrix Spike Result: | | |
| Sample Duplicate Result (pCi/L, g, F). | 6.204 | the space below. | Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F) | 1.222 | | Sample Matrix Spike Duplicate Result: | | |
| Are sample and/or duplicate results below RL? | NO | | Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | | |
| Duplicate Numerical Performance Indicator | -0.492 | State G. Lishingkowik. | Duplicate Numerical Performance Indicator: | | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD | 7.41% | | (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: | | |
| Dunlicate Status vs Numerical Indicator | N/A | | MS/ MSD Duplicate Status vs Numerical Indicator: | | |
| Duplicate Status vs RPD | Pass | | MS/ MSD Duplicate Status vs RPD: | | |
| % RPD Limit | 32% | | % RPD Limit: | | |

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

Comments:

Cim 413124

Page 20 of 21

PACE Analytical Services Ra-228 Analysis

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Analyst: ZPC Date: 4/1/2024 Worklist: 78254 Matrix: WT Mathed Blank Accessment | MS/MSD 1 Date: e I.D. S I.D.) I.D. e I.D.: | MS/MSD 2 |
|--|--|----------|
| Date: 4/1/2024 Sample Collection Worklist: 78254 Sample Matrix: WT Sample MS Sample MS Spike | Date: e I.D. S I.D. D I.D. e I.D.: | |
| Worklist: 78254 Sample Matrix: WT Sample MS Sample MSL Spike | e I.D. S I.D. D I.D. e I.D.: | |
| Matrix: WT Sample M: Sample M: Sample MSI Sample MSI Sample MSI Spike | S I.D. D I.D. 9 I.D.: | |
| Sample MSI Spike | D I.D. 1.D.: | |
| Method Blank Assossment | (mL): | |
| | (m)): | |
| MB Sample ID 3197475 MS/MSD Decay Corrected Spike Concentration (pCi | ////_). | |
| MB concentration: 0.246 Spike Volume Used in MS | (mL): | |
| M/B 2 Sigma CSU: 0.352 Spike Volume Used in MSD | (mL): | |
| MB MDC: 0.756 MS Aliquot (L, | g, F): | |
| MB Numerical Performance Indicator: 1.37 MS Target Conc.(pCi/L, | g, F): | |
| MB Status vs Numerical Indicator: Pass MSD Aliquot (L, | g, F): | |
| MB Status vs. MDC: Pass MSD Target Conc. (pCi/L, | g, F): | |
| MS Spike Uncertainty (calcula | ated): | |
| Laboratory Control Sample Assessment ILCSD (Y or N)? Y MSD Spike Uncertainty (calcul: | ated): | |
| Losofacty control cample Association Losofactor Sample R | esult: | |
| Count Date: 4/3/2024 4/3/2024 Sample Result 2 Sigma CSU (pCi/L, | g, F): | |
| Snike ID 23-043 23-043 Sample Matrix Spike R | esult: | |
| Decay Corrected Spike Concentration (nCl/ml.): 37 259 37.259 Matrix Spike Result 2 Sigma CSU (pCi/L, | g, F): | |
| Volume Leed (m) > 0.10 0.10 Sample Matrix Spike Duplicate R | esult: | |
| Aliquiet Volume (I or E): 0.817 0.815 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, | g, F): | |
| Tarriet Conc. (nCi/L, g, F): 4,562 4,570 MS Numerical Performance Indi | cator: | |
| Lincertainty (Calculated): 0.224 0.224 MSD Numerical Performance Indi | cator: | |
| Besuit (Ci/l o E) 5377 6.776 MS Percent Reco | overy: | |
| L CS/L CSD 2 Sigma CSLL (OCI/L or E): 1.254 1.469 MSD Percent Reco | overy: | |
| Numerical Performance Indicator: 1.25 2.91 A MS Status vs Numerical Indi | cator: | |
| Percent Recovery: 117.86% 148.29% V MSD Status vs Numerical Indi | cator: | |
| Status vs Numerical Indicator: N/A Warning MS Status vs Reco | overy: | |
| Status vs Recovery: Pass Fail High** MSD Status vs Reco | overy: | |
| Upper % Recovery Limits: 135% 135% MS/MSD Upper % Recovery L | imits: | |
| Lower % Recovery Limits: 60% 60% MS/MSD Lower % Recovery L | imits: | |
| | | |
| Duplicate Sample Assessment Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
| Sample LD LCS7254 Enter Dunlicate Sample | le I.D. | |
| Sample ID.: CS70204 Enter Deploted | SI.D. | |
| Duplicate Sample 1.D. LCO/0234 Sample Than Sample MS | D I.D. | |
| Sample Result (Durit, g, r), 0.377 Guide attain Sample Matrix Solike F | esult: | |
| Somple Duplicate Recut (C)(1 a E) 6 776 the space below. Matrix Spike Result 2 Signar CSU (C)/L. | g, F): | |
| Sample Duplicate Result 2011, gr 1, 1469 Sample Matrix Spike Duplicate R | esult: | |
| Are sample and/or dunlicate results below RL2 NO Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, | g, F): | |
| Duplicate Numerical Performance Indicator - 1420 Duplicate Numerical Performance Indi | cator: | |
| (Based on the LOS(LOSD Derrent Recoveries) Duplicate RPD: 22 87% (Based on the Percent Recoveries) MS/ MSD Duplicate | RPD: | |
| Based on the Ecological Factorian Superioral Indicator Pass MS/ MSD Duplicate Status vs Numerical Indi | cator: | |
| Duplicate Status vs Nutrienta interaction - 1 ass MS/ MSD Duplicate Status vs | RPD: | |
| % RPD Limit 36% % RPD | Limit: | |
| | | |

VAL 4/4/24

**If all sample results are below MDC, the batch is acceptable, otherwise this batch must be reprepped due to LCSD failure. A only hit is legitamate, confirmed by Re Ingrowth

1 of 1

Ra-228 NELAC DW2 Printed: 4/4/2024 8:47 AM

Pace Analytical"

Ra-228_78254_W_RI Ra-228 (ENV-FRM-GBUR-0295 03).xls



Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

August 02, 2024

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

RE: Project: MW-FAA-5 RADCHEM-Revised Report Pace Project No.: 60449058

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2024. 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

REVISED to append QC sheets

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

Sincerely,

Alice Spiller

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

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Nick Williams, Haley Aldrich





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: MW-FAA-5 RADCHEM-Revised Report Pace Project No.: 60449058

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



SAMPLE SUMMARY

| Project: | MW-FAA-5 RADCHEM-Revised Repor | t | | | |
|-------------------|--------------------------------|--------|----------------|----------------|--|
| Pace Project No.: | 60449058 | | | | |
| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
| 60449058001 | FAA-5-031324 | Water | 03/13/24 10:10 | 03/14/24 17:30 | |



SAMPLE ANALYTE COUNT

| Project: | MW-FAA-5 RADCHEM-Revised Report | | | | |
|-----------------|---------------------------------|--------------------------|----------|----------------------|------------|
| Pace Project No | o.: 60449058 | | | | |
| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
| 60449058001 | FAA-5-031324 | EPA 903.1 | LL1 | 1 | PASI-PA |
| | | EPA 904.0 | ZPC | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |

PASI-PA = Pace Analytical Services - Greensburg



Project: MW-FAA-5 RADCHEM-Revised Report

Pace Project No.: 60449058

Method: EPA 903.1

Description:903.1 Radium 226Client:Evergy Kansas Central, Inc.Date:August 02, 2024

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:



Project: MW-FAA-5 RADCHEM-Revised Report

Pace Project No.: 60449058

Method: EPA 904.0

Description:904.0 Radium 228Client:Evergy Kansas Central, Inc.Date:August 02, 2024

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:



Project: MW-FAA-5 RADCHEM-Revised Report

Pace Project No.: 60449058

Method: Total Radium Calculation

Description:Total Radium 228+226Client:Evergy Kansas Central, Inc.Date:August 02, 2024

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.

dCC°

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MW-FAA-5 RADCHEM-Revised Report

Pace Project No.: 60449058

| Sample: FAA-5-031324 PWS: | Lab ID: 60449058 Site ID: | 001 Collected: 03/13/24 10:10 Sample Type: | Received: | 03/14/24 17:30 M | fatrix: Water | |
|------------------------------|------------------------------|---|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.525 ± 0.447 (0.628) C:NA T:89% | pCi/L | 03/28/24 15:34 | 13982-63-3 | |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.301 ± 0.366 (0.774) C:81% T:84% | pCi/L | 03/28/24 16:00 | 15262-20-1 | |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.826 ± 0.813 (1.40) | pCi/L | 04/01/24 16:28 | 7440-14-4 | |



QUALITY CONTROL - RADIOCHEMISTRY

| Project: | MW-FAA-5 RADCH | EM-Revised Report | | | | |
|--------------------|------------------|-----------------------------------|-----------------|----------------------|------------|--|
| Pace Project No.: | 60449058 | | | | | |
| QC Batch: | 656262 | Analysis Method: | EPA 903.1 | | | |
| QC Batch Method: | EPA 903.1 | Analysis Description: | 903.1 Radium-2 | 226 | | |
| | | Laboratory: | Pace Analytical | Services - Greensbur | g | |
| Associated Lab San | nples: 604490580 | 001 | | | | |
| METHOD BLANK: | 3196770 | Matrix: Water | | | | |
| Associated Lab San | nples: 604490580 | 01 | | | | |
| Paran | neter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers | |
| Radium-226 | | 0.0481 ± 0.249 (0.517) C:NA T:86% | pCi/L | 03/28/24 15:08 | | |

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.



QUALITY CONTROL - RADIOCHEMISTRY

| Project: | MW-FAA-5 RADC | HEM-Revised Report | | | | |
|--------------------|-----------------|-----------------------------------|-----------------|----------------------|------------|--|
| Pace Project No.: | 60449058 | | | | | |
| QC Batch: | 656265 | Analysis Method: | EPA 904.0 | | | |
| QC Batch Method: | EPA 904.0 | Analysis Description: | 904.0 Radium 2 | 228 | | |
| | | Laboratory: | Pace Analytical | Services - Greensbur | g | |
| Associated Lab Sar | mples: 60449058 | 3001 | | | | |
| METHOD BLANK: | 3196781 | Matrix: Water | | | | |
| Associated Lab Sar | mples: 60449058 | 3001 | | | | |
| Parar | neter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers | |
| Radium-228 | | 0.312 ± 0.388 (0.821) C:82% T:79% | pCi/L | 03/28/24 15:58 | | |

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.



QUALIFIERS

Project: MW-FAA-5 RADCHEM-Revised Report

Pace Project No.: 60449058

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:MW-FAA-5 RADCHEM-Revised ReportPace Project No.:60449058

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|--------------------------|----------|-------------------|---------------------|
| 60449058001 | FAA-5-031324 | EPA 903.1 | 656262 | | |
| 60449058001 | FAA-5-031324 | EPA 904.0 | 656265 | | |
| 60449058001 | FAA-5-031324 | Total Radium Calculation | 658975 | | |

| Ross | | | |
|--|---|------------------------------|---|
| Baa | | | |
| (-Pace | DC#_Title: ENV-FRI | M-LENE-0009_Sample | e (50449058 |
| ANALYTICAL STRUCTS | Revision: 2 E | ffective Date: 01/12/202 | 2 Issued By: Lenexa |
| Client Name: <u>E</u> | sergy | | |
| Courier: FedEx 🗆 UPS [| □ VIA □ Clay □ | | Pace 🗆 Xroads 🗆 Client 🖸 Other 🗆 |
| Fracking #: | | Pace Shipping Label Used? | Yes 🗆 No 🗖 |
| Custody Seal on Cooler/Box F | Present: Yes/ No 🗆 | Seals intact: Yes | No 🗆 |
| Packing Material: Bubble | Wrap 🗆 🤺 Bubble Bag | s 🗆 Foam 🗆 | None \Box Other \Box |
| Thermometer Used: 1J | <u>Г98</u> Туре | e of Ice: Wet Blue None | Determined initials of normany |
| Cooler Temperature (°C): A | s-read <u>18-0</u> Corr. F | actor OJ Correcte | d 17.7 examining contents: 03-(S-2) |
| Temperature should be above freez | ting to 6°C | | |
| Chain of Custody present: | | | |
| Chain of Custody relinquished: | | ZYes No N/A | |
| Samples arrived within holding t | time: | ØYes □No □N/A | |
| Short Hold Time analyses (<7 | 2hr): | | |
| Rush Turn Around Time requ | ested: | | |
| Sufficient volume: | | ZYes No N/A | |
| Correct containers used: | | ZYes □No □N/A | |
| Pace containers used: | | ØYes □No □N/A | |
| Containers intact: | | HYes □No □N/A | |
| Jnpreserved 5035A / TX1005/1 | 006 soils frozen in 48hrs? | □Yes □No ØN/A | |
| Filtered volume received for dise | solved tests? | □Yes □No ☑N/A | |
| Sample labels match COC: Date | e / time / ID / analyses | ZYes □No □N/A | |
| Samples contain multiple phase | s? Matrix: | Yes No N/A | |
| Containers requiring pH preserv (HNO₃, H₂SO₄, HCl<2; NaOH>9 Sul (Exceptions:_VOA, Micro, O&G, KS | vation in compliance? lfide, NaOH>10 Cyanide) TPH, OK-DRO) LC | □Yes □No □A/A L d DT#: | ist sample IDs, volumes, lot #'s of preservative and the late/time added. |
| Cyanide water sample checks: | | | |
| ead acetate strip turns dark? (F Potassium iodide test strip turns | <pre>kecord only) kecord only kecord only</pre> | | |
| Frip Blank present: | | | |
| leadspace in VOA vials (>6mn | n): | | |
| Samples from USDA Regulated | Area: State: | | |
| Additional labels attached to 50 | 35A / TX1005 vials in the fi | | |
| Client Notification/ Resolution | : Copy CO | C to Client? Y / N | Field Data Required? Y / N |
| Person Contacted: | Dat | e/Time: | |

Project Manager Review:

Date:

| 1 | Pace® Location Requested (City/State) | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---------------------------------------|----------------------------|---|--|--|-----------------|------------------------|---------------------------------|-----------|------------|----------|------------|-----------|-----------|-----------|------------|-----------|-------------|--------------|-------------|---------------------------------|---|----------------------|-------------|
| Dean | Pace Analytical Kansas | teu (City/Sta | lej. | | CHAIN-OF- | CUSTODY | Analytical | Request | Doci | imont | | | | | L | ABUSE | ONLY- | Affix We | orkorde | er/Log | in Label H | e. | | |
| / Tace | 9608 Loiret Blvd., Lenexa, KS | 5 66219 | | | Chain-of-Cu | stody is a LEG/ | | molete all reli | evant fie | | • | | | Ser. | | | | | | | | | | |
| Campany | | | | | | | | | | | | | 22 | 50.2 | 1 | - (| 600 | NL | 90 | 58 | 2 | | | |
| Company Name: | Evergy Kansas Central, Ir | 1 C . | | | Contact/Report 1 | o: Jake Hu | mphrey | | | | | | | | | 0 | 20 | 1 1 | iO | 50 | , | ÷. | | |
| Street Address: | 818 S Kansas Avenue, To | peka, KS 666: | 12 | | Phone #: | (913)63 | 4-0605 | | | | | | | 97. | | | | | | | | | | |
| | | | | | E-Mail: | jake.hu | mphrey@evergy | .com | | | | | | 1 | -95 | Sca | an QR | Code fo | or instr | uction | IS | | | |
| | | | | | Cc E-Mail: | skaney(| @haleyaldrich.co | m | | | | | | | | | | | | | | | | |
| Customer Project #: | | | | | | | | | | | | | | | Specify | Containe | r Size ** | | | | **Container S | ize: (1) 1L, (2) 5 | 00mL, (3) 25(|)mL, (4) |
| Project Name: | MW-FAA-5 RADCHEM | | | | Invoice To: | Jeffrey | Center | | | | | 1 | 1 | | | T | | | | | 125mL, (5) 10 TerraCore, (9) | <pre>imL, (6) 40mL v 90mL, (10) Oth</pre> | ial, (7) ΕπCor er | e, (8) |
| | | | | | Invoice E-Mail: | evergya | p@onlinecaptu | ecenter.con | 1 | | | - | | Identif | y Conta | iner Prese | rvative T | vpe*** | | - | Att Orocomoti | un Tumori (1) N | ana (3) HNO | 2 (2) |
| Site Collection Info, | /Facility ID (as applicable): | | | | Purchase Order # | (if WSTR-2 | 000095397 | | | | | 2 | 2 | | 1 | | 1 | 1 | | | H2SO4, (4) HC | l, (5) NaOH, (6) | Zn Acetate, (| 7) |
| | | | | | applicable): | | | | | | | | | | Ana | lysis Requ | ested | -l | <u> </u> | | NaHSO4, (8) S | od, Thiosulfate, | (9) Ascorbic | Acid, (10) |
| | | | | | Quote #: | | | | | | | | | | | | | T | | | Proj Ma | r: | | 1 |
| Time Zone Collecter | d:[]AK []PT [] | MT [X]C | r []e | т | County / State or | igin of sample(| s): Kansa | ; | | | | 1 | ets | | | | | | | | Alice S | piller | | d for |
| Data Deliverables: | | Regulatory Pro | ogram (DW | /, RCRA, et | c.) as applicable: | Reportat | ole []Yes [] | () No | | | | 1 | She | | | - 12 | | | | | AcctNun | / Client ID: | | Itifie |
| | Level III [] Level IV | | | | | | | | | | | | 1 X | | - 1 | | | | | | 2 | | | ider |
| | Levelin [] Levelin | 1.15 | Ru | sh (Pre-a | pproval require | rd): | DW PW | SID # or WW Pe | rmit # as | applicable | 5: | | d, | | | | | | | | O Table #: | | | ance |
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| | | Date Results Requested: | | | | | Analysis: | ipplicable): [| J Yes | [X] NO | 1 | | E | | | | | | | | Profile / | Femplate: | | -con |
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| (B), Vapor (V), Surfa | ace Water (SW),Sediment (SED) |), Sludge (SL), C | aulk (CK), l | eachate (L | L), Biosolid (BS), C | ther (OT) | | | | | | 122 | 52 | | | 1 | | | 6 0 | | EZ 30 | 30041 | J; | ation |
| (| Customer Sample ID | | Matrix | Comp / | Composi | te Start | Collected or Co | mposite End | # | Res. C | hlorine | liu | l ii | | - 1 | | | | | n i | | | | - serv |
| | | | | Grab | Date | Time | Date | Time | Cont. | Results | Units | Ra | Rac | | | | | | | | Sai | nple Com | nent | Pre |
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| Additional Instructi | inne from Dese®: | | | | | 0.11 . 17 | | | | | | | | | | | | | | | | | | |
| Additional Instructi | ions from Pace*; | | | | | (Printed Nam | ne) | Matt Va | nderPut | ten | | Custor | mer Rer | narks / S | pecial C | onditions | / Possibl | e Hazard | s: | | | | | |
| | | | | | | Signature | , | | | | | # Co | olers: | | Thermom | eter ID: | Corr | ertion Fact | or (°C): | Obs | Temp. (TC) | Correlated Tr | emn (°C) | On Ice |
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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

| 'n | Internal Transfer Chain of Custody | | | | | | | | | | | | | | | | | | | |
|---|---|----------------|---|-------------|---------|---------|------|--------|----------|---------------|-----------|------------|--------------------|---------------|--------|--------|-------|---|-------|--------------|
| | | | Rush MultiplierX State Of X Samples Pre-Logged into eCOC Cert. Ne MM/ FAA 5 PADCUEM Oursen | | | | | | |)rigi ded: | n: ł | κs Σ∣γ₀ | es | No | | | | | - | Pace |
| Wo | rkorder: 60449058 | Workorder N | lame: MW-FA | A-5 RADCHE | M | | | Own | er Re | ceiv | ed l | Date | : | 3/14/2024 | Re | esults | s Rec | uesto | ed By | r: 4/12/2024 |
| Rep | ort To | | Subcontract To | | | | | | | | | | | Request | ed Ana | alysis | | | | |
| Alica Pac 960 Len Pho | e Spiller e Analytical Kansas 8 Loiret Blvd. exa, KS 66219 ne (913)599-5665 | | Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3, & 4 Greensburg, PA 15601 Phone (724)850-5600 Preserved Containers | | | | | | | | QC Sheets | Radium 226 | m 228 and combined | | | | | An and a second seco | | |
| | | | | | | | | | | | | | adiu | | | | | | | |
| ltem | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | HN03 | | | | | | | ∝ | | | | | | | LAB USE ONLY |
| 1 | FAA-5-031324 | PS | 3/13/2024 10:10 | 60449058001 | Water | 2 | | | | | Х | Х | X | | | | | | | 001 |
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| 000 | ner remperature on h | kecelpt | _ີບ Cus | stody Seal | r or (ľ | N } | | Kec | eived | on l | ice | Y | or | (N) | | Sa | mple | ∴s Inta | ict N | mor N |

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



| Client Name: Pace KS | Jona | | 0001 | Prc | NO# PM: M CLIEN | #:301 AR T: PACE_0 | 069340 Due Date: 04/ 60_LEKS | /09 |
|---|--|--|----------------|------------------------|-----------------------|---------------------------|--|-----|
| Courier: 🗹 Fed Ex 🗌 UPS 🗍 USPS 🗌 Client | 🗌 Com | merci | al 🗆 F | Pace 🗌 Other | | | Initial / Date | |
| Tracking Number: 7146237 | <u>6 </u> | 22 | 8 | , | | Examined E | By: 3/14/24 | |
| Custody Seal on Cooler/Box Present: Thermometer Used: Type | es In pe of Ic | o ce: V | Seals Vet B | Intact: 🛛 Yes lue 🕡 | ENo | Labeled By: Temped By: | <u> </u> | |
| Cooler Temperature: Observed Temp | | ۰C | Corre | ection Factor: | | C Final Te | emp:•C | |
| Temp should be above freezing to 6°C | | | | | T | | | |
| | | T | 1 | pH paper Lot# | <u>_ </u> | D.P.D. Resid | dual Chlorine Lot # | |
| Comments: | Yes | No | NA | 1002G | 31 | • | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 |
| Chain of Custody Present | | | | 1. | | | | _ |
| Chain of Custody Filled Out: | | | ļ | 2 | | | | _ |
| -Were client corrections present on COC | | | 1 | | | | | _ |
| Chain of Custody Relinquished | $\left \right $ | | <u></u> | 3. | . | | | _ |
| Sampler Name & Signature on COC: | | | | 4. | | | | _ |
| Sample Labels match COC: | | Ϊ |] | 5. | | | | _ |
| -Includes date/time/ID | | \mathcal{M} | | | | | | |
| Matrix: | | - | | | | | | ĺ |
| Samples Arrived within Hold Time: | | | | 6. | | | | - |
| Short Hold Time Analysis (<72hr | | | 1 | 7. | | | |] |
| remaining): | | \lor | | | | | | |
| Rush Turn Around Time Requested: | | | | 8. | | | | |
| Sufficient Volume: | | Ī | | 9. | | | | |
| Correct Containers Used: | | | | 10. | | | | |
| -Pace Containers Used | | | | | | | | |
| Containers Intact: | / | | | 11. | | | |] |
| Orthophosphate field filtered: | | | | 12. | | | |] |
| Hex Cr Aqueous samples field filtered: | | | | 13. | | | | |
| Organic Samples checked for dechlorination | | | | 14: | | | |] |
| Filtered volume received for dissolved tests: | | | | 15: | | | • | |
| All containers checked for preservation: | | | | 16. | | | |] |
| exceptions: VOA, coliform, TOC, O&G, | | | | O. | 1,1 | ` | | |
| - Phenolics, Radon, non-aqueous matrix | | | | | 12 | 2 | <u>.</u> | |
| All containers meet method preservation | | | | Initial when | | Date/Time of | | |
| requirements: | \Box | | | completed V | | Preservation | | _ |
| . equilation | - | | | Lot# of added | | | | |
| 8260C/D: Headspace in VOA Vials (> 6mm) | | ···· · · · · · · · · · · · · · · · · · | / | 17. | | | | 1 |
| CT4 1: Headenaco in VOA Vials (0mm) | | | | 18 | | | | { |
| oza.i. neauspace in voa viais (oinni) | | | | ب. | | | · | |
| Radon: Headspace in RAD Vials (Omm) | | | | 19. | | | | |
| Trip Blank Present: | | \square | | Trip blank cus | stody s | eal present? | YES or NO | |
| Rad Samples Screened <.05 mrem/hr. | \square | | | completed JS | Date: | 119/24 | Survey Meter SN: 2SC/C/3RO | |
| Comments: | | | | | | 1 1 | | [|

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.

OF AO

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Test: | Ra-226 | | | | |
|--|----------------|------------------|---|---|----------|
| Analyst: | LL1 | | Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
| Date: | 3/20/2024 | | Sample Collection Date: | | |
| Batch ID: | 78240 | | Sample I D | | |
| Matrix: | DW | | Sample MS LD. | | |
| | | | Sample MSD I.D. | in the second | |
| Method Blank Assessment | | 1 | Spike I.D.: | | |
| MB Sample ID | 3196770 | | MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| MB concentration: | 0.048 | | Spike Volume Used in MS (mL): | • . | |
| M/B Counting Uncertainty: | 0.249 | | Spike Volume Used in MSD (mL): | | |
| MB MDC: | 0.517 | | MS Aliquot (L, g, F): | | |
| MB Numerical Performance Indicator: | 0.38 | | MS Target Conc.(pCi/L, g, F): | | |
| MB Status vs Numerical Indicator: | N/A | | MSD Aliquot (L, g, F): | | |
| MB Status vs. MDC: | Pass | | MSD Target Conc. (pCi/L, g, F): | | |
| | | _ | MS Spike Uncertainty (calculated): | | |
| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y | MSD Spike Uncertainty (calculated): | | |
| | LCS78240 | LCSD78240 | Sample Result: | | |
| Count Date: | 3/28/2024 | 3/28/2024 | Sample Result Counting Uncertainty (pCi/L, g, F): | | |
| Spike I.D.: | 23-063 | 23-063 | Sample Matrix Spike Result: | | |
| Spike Concentration (pCi/mL): | 32.302 | 32.302 | Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | | |
| Volume Used (mL): | 0.10 | 0.10 | Sample Matrix Spike Duplicate Result: | | |
| Aliquot Volume (L, g, F): | 0.654 | 0.651 | Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | | |
| l'arget Conc. (pCl/L, g, F): | 4.943 | 4.964 | MS Numerical Performance Indicator: | | |
| Uncertainty (Calculated): | 0.232 | 0.233 | MSD Numerical Performance Indicator: | | |
| Result (pCi/L, g, F): | 1.057 | 5.044 | MS Percent Recovery. | | |
| Numerical Performance Indicator: | 1 38 | 0.505 | MS Status vs Numerical Indicator | | |
| Percent Recovery: | 115.42% | 101 60% | MSD Status vs Numerical Indicator: | | |
| Status vs Numerical Indicator: | N/A | N/A | MS Status vs Recovery: | | |
| Status vs Recoverv: | Pass | Pass | MSD Status vs Recovery: | | |
| Upper % Recovery Limits: | 133% | 133% | MS/MSD Upper % Recovery Limits: | | |
| Lower % Recovery Limits: | 73% | 73% | MS/MSD Lower % Recovery Limits: | | |
| | | | | | |
| Duplicate Sample Assessment | | | Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
| | | | | | |
| Sample I.D.: | LCS78240 | Enter Duplicate | Sample I.D. | | |
| Duplicate Sample I.D. | LCSD78240 | sample IDs IT | Sample MS I.D. | | |
| Sample Result (pCi/L, g, F): | 5.705 | | Sample MSD I.D. | | |
| Sample Result Counting Oricentality (pCi/L, g, F). | 5.044 | the space below | Sample Matrix Spike Result Counting Lincortainty (nCi/L, a, E): | | |
| Sample Duplicate Result Counting Lincertainty (pCi/L, g, F). | 0.989 | ule space below. | Sample Matrix Spike Duplicate Result | | |
| Are sample and/or dunlicate results below RI 2 | NO | | Matrix Spike Duplicate Result Counting Uncertainty (nCi/L o E): | | |
| Duplicate Numerical Performance Indicator | 0.895 | | Duplicate Numerical Performance Indicator | | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate PDD | 12 74% | | (Based on the Percent Recoveries) MS/ MSD Dunlicate RPD: | | |
| Duplicate Status ve Numerical Indicator | N/A | | MS/ MSD Duplicate Status vs Numerical Indicator | | |
| Dupicate Status vs Rutherical Indicato | Pass | 1 | MS/ MSD Duplicate Status vs Ren: | | |
| % RPD Limit | 32% | | % RPD Limit: | | |

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

Comments:

Pace Analytical"

Cm 3/28/24

Mustrative

Ra-226_78240_W Ra-226 (ENV-FRM-GBUR-0294 03).xls

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| www.pacelabs.com | Ra-228 | | - marget modernating and the second second | | |
|---|----------------|------------------|---|---------------------------------------|----------|
| 1 CSL | 700 | | Comple Matrix Spike Control Accordment | MS/MSD 1 | MS/MSD 2 |
| Analyst | 2FC | | Sample Matrix Spike Control Assessment | MIG/MIGD 1 | 100/0002 |
| Date | 3/20/2024 | | Sample Collection Date. | | |
| Worklist: | 78241 | | Sample I.D. | | |
| Matrix: | VV I | | Sample MS I.D. | 1 | |
| | | • | Sample MSD I.D. | | |
| Method Blank Assessment | | | Spike I.D.: | | |
| MB Sample ID | 3196781 | | MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| MB concentration: | 0.312 | 1 | Spike Volume Used in MS (mL): | | |
| M/B 2 Sigma CSU: | 0.388 | | Spike Volume Used in MSD (mL): | | |
| MB MDC: | 0.821 | | MS Aliquot (L, g, F): | | |
| MB Numerical Performance Indicator: | 1.58 | | MS Target Conc.(pCi/L, g, F): | | |
| MB Status vs Numerical Indicator: | Pass | | MSD Aliquot (L, g, F): | | |
| MB Status vs. MDC: | Pass | | MSD Target Conc. (pCi/L, g, F): | 1 | |
| | | | MS Spike Uncertainty (calculated): | | |
| Laboratory Control Sample Assessment | LCSD (Y or N)? | Y | MSD Spike Uncertainty (calculated): | | |
| | LCS78241 | LCSD78241 | Sample Result: | | |
| Count Date: | 4/1/2024 | 3/28/2024 | Sample Result 2 Sigma CSU (pCi/L, g, F): | | |
| Spike I.D.: | 23-043 | 23-043 | Sample Matrix Spike Result: | | |
| Decay Corrected Spike Concentration (pCi/mL): | 37.283 | 37.331 | Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Volume Used (mL): | 0.10 | 0.10 | Sample Matrix Spike Duplicate Result: | | |
| Aliquot Volume (L, g, F): | 0.818 | 0.817 | Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): | | |
| Target Conc. (pCi/L, g, F): | 4.556 | 4.568 | MS Numerical Performance Indicator: | | |
| Uncertainty (Calculated): | 0.223 | 0.224 | MSD Numerical Performance Indicator: | | |
| Result (pCi/L, g, F): | 3.417 | 3.046 | MS Percent Recovery: | | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.835 | 0.764 | MSD Percent Recovery: | | |
| Numerical Performance Indicator: | -2.58 | -3.75 | MS Status vs Numerical Indicator: | | |
| Percent Recovery: | 74.98% | 66.67% | MSD Status vs Numerical Indicator: | | |
| Status vs Numerical Indicator: | N/A | N/A | MS Status vs Recovery: | | |
| Status vs Recovery: | Pass | Pass | MSD Status vs Recovery: | 1 | |
| Upper % Recovery Limits: | 135% | 135% | MS/MSD Upper % Recovery Limits: | - | |
| Lower % Recovery Limits: | 60% | 60% | MS/MSD Lower % Recovery Limits: | <u></u> | |
| | | | | · · · · · · · · · · · · · · · · · · · | |
| Duplicate Sample Assessment | | | Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
| | | | 0 | | |
| Sample I.D.: | LCS78241 | Enter Duplicate | Sample I.D. | | |
| Duplicate Sample I.D. | LCSD/8241 | sample IDs if | Sample MS I.D. | | |
| Sample Result (pCi/L, g, F): | 3.41/ | other than | Sample Mobile Deput | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.835 | LCS/LCSD IN | Sample Matrix Spike Result 2 Simple COLL (COII) a Si | | |
| Sample Duplicate Result (pCi/L, g, F): | 3.046 | the space below. | Matrix Spike Result 2 Sigma CSU (pCI/L, g, F): | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.764 | | Sample Matrix Spike Duplicate Result 2 Sigma CSU (aCi/L a S): | | |
| Are sample and/or duplicate results below RL? | NU | | wautz Spike Duplicate Result 2 Signa CSU (pC/L, g, F): | | |
| Duplicate Numerical Performance Indicator: | 0.643 | L | (Pased on the Percent Percoveries) MS/ MSD Duplicate PPD: | | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 11./4% | JI | (Dased on the Fercent Recoveries) with with Duplicate RFD. | | |
| Duplicate Status vs Numerical Indicator: | Pass | | MS/ MSD Duplicate Status vs Numerical Indicator: | | |
| Duplicate Status vs RPD: | Pass | | IVIO/ IVIO/ DUDIICALE STATUS VS RPD: | | |
| % RPD Limit. | 30% | 1 | 76 KFD Littlik | 1 | 1 |

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

Comments:

Pace Analytical*

Muylil24



Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

June 02, 2024

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

RE: Project: JEC FAL CCR Pace Project No.: 60453066

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 2024. 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 alice.spiller@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Andrew Watson, Haley & Aldrich





CERTIFICATIONS

Project: JEC FAL CCR Pace Project No.: 60453066

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Arkansas Inorganic Drinking Water Certification 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



SAMPLE SUMMARY

| Project: Pace Project No | JEC FAL CCR b.: 60453066 | | | | |
|-----------------------------|-----------------------------|--------|----------------|----------------|--|
| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
| 60453066001 | FAA-6 | Water | 05/14/24 10:05 | 05/16/24 10:15 | |



SAMPLE ANALYTE COUNT

Project:JEC FAL CCRPace Project No.:60453066

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------|----------|----------------------|------------|
| 60453066001 | FAA-6 | EPA 200.8 | JGP | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



Project: JEC FAL CCR

Pace Project No.: 60453066

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Evergy Kansas Central, Inc.Date:June 02, 2024

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.



ANALYTICAL RESULTS

| Project: Pace Project No.: | JEC FAL CCR 60453066 | | | | | | | | | |
|-------------------------------|-------------------------|-----------------------------------|-----------------------------|----------------------------|----------|----------|----------------|------------------|---------------|------|
| Sample: FAA-6 | | Lab ID: 604 | 53066001 | Collected: | 05/14/2 | 4 10:05 | Received: 0 | 05/16/24 10:15 | Matrix: Water | |
| Parameters | | Results | Units | Report | Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.8 MET ICPMS | | Analytical Meth Pace Analytica | nod: EPA 20 I Services - | 0.8 Prepara Kansas City | tion Met | hod: EP/ | A 200.8 | | | |
| Arsenic, Total Reco | verable | 0.0084 | mg/L | (| 0.0010 | 1 | 05/22/24 11:07 | 7 05/30/24 11:39 | 7440-38-2 | |



QUALITY CONTROL DATA

| Project: | JEC FAL CCR | | | | | | | | | | | |
|--------------------|------------------|--------------|-------|-----------|-------------|-------------|--------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 60453066 | | | | | | | | | | | |
| QC Batch: | 895372 | | Anal | ysis Meth | hod: I | EPA 200.8 | | | | | | |
| QC Batch Method: | EPA 200.8 | | Analy | ysis Des | cription: 2 | 200.8 MET | | | | | | |
| | | | Labo | ratory: | ł | Pace Analyt | ical Service | es - Kansas | s City | | | |
| Associated Lab San | nples: 604530660 | 001 | | | | | | | | | | |
| METHOD BLANK: | 3543596 | | | Matrix: | Water | | | | | | | |
| Associated Lab San | nples: 604530660 | 001 | | | | | | | | | | |
| | | | Blai | nk | Reporting | | | | | | | |
| Paran | neter | Units | Res | ult | Limit | Analy | /zed | Qualifiers | S | | | |
| Arsenic | | mg/L | < | 0.0010 | 0.001 | 0 05/30/2 | 4 11:18 | | | | | |
| LABORATORY COM | NTROL SAMPLE: | 3543597 | | | | | | | | | | |
| | | | Spike | l | LCS | LCS | % Re | ec | | | | |
| Paran | neter | Units | Conc. | R | Result | % Rec | Limit | ts (| Qualifiers | _ | | |
| Arsenic | | mg/L | 0.0 |)4 | 0.039 | 98 | 3 8 | 35-115 | | | | |
| MATRIX SPIKE & N | IATRIX SPIKE DUP | LICATE: 3543 | 598 | | 3543599 |) | | | | | | |
| | | | MS | MSD | | | | | | | | |
| _ | | 60452951001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic | mg/L | 6.0 ug/L | 0.04 | 0.0 | 0.044 | 0.045 | 96 | 98 | 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.



QUALIFIERS

| Project: | JEC FAL CCR |
|-------------------|-------------|
| Pace Proiect No.: | 60453066 |

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.



60453066001

FAA-6

895477

QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------------------------|-----------|-----------------|----------|-------------------|---------------------|
| Project: Pace Project No.: | 60453066 | | | | |

895372

EPA 200.8

EPA 200.8

| REPORT OF | LABORATORY | ANALYSIS |
|------------------|------------|----------|
|------------------|------------|----------|

| | | | WO#:60453066 |
|---|--------------------------|---|--|
| Pace | DC#_Title: ENV- | FRM-LENE-0009_Sampl | le Co 60453066 |
| AHALYTICAL SERVICES | Revision: 2 | Effective Date: 01/12/202 | 22 Issued By: Lenexa |
| Client Name: Fr | ergy Kansas | Central | |
| Courier: FedEx UPS | □ VIA □ Clay | | Pace 🗆 Xroads 🗆 Client 🖌 Other 🗆 |
| Tracking #: | | Pace Shipping Label Used? | ? Yes 🗅 No 🗳 |
| Custody Seal on Cooler/Box F | Present: Yes | o 🗆 🛛 Seals intact: Yes 💾 | No 🗆 |
| Packing Material: Bubble Thermometer Used: <u>ア</u> よれ | Wrap □ Bubble | Bags □ Foam □ Type of Ice: 🕢 Blue None | None C Other C |
| Cooler Temperature (°C): A | s-read D. 9 Cor | rr. Factor 0/0 Correcte | d D. Date and initials of person |
| Temperature should be above freezi | ing to 6°C | | AF 5/16 |
| Chain of Custody present: | | | |
| Chain of Custody relinguished: | | | |
| Samples arrived within holding ti | ime: | | |
| Short Hold Time analyses (<72 | 2hr): | | |
| Rush Turn Around Time reque | ested: | | |
| Sufficient volume: | | | |
| Correct containers used: | | | |
| Pace containers used: | | | |
| Containers intact: | | N/A | |
| Unpreserved 5035A / TX1005/10 | 006 soils frozen in 48hr | rs? 🛛 Yes 🖾 No 💆 N/A | |
| Filtered volume received for diss | olved tests? | | |
| Sample labels match COC: Date | / time / ID / analyses | Aves DNO DN/A | 4 |
| Samples contain multiple phases | ? Matrix: | | |
| Containers requiring pH preserva | ation in compliance? | Ves ONO ON/A L | ist sample IDs, volumes, lot #'s of preservative and the |
| (HNO ₃ , H₂SO₄, HCI<2; NaOH>9 Sulfi (Exceptions: \/QA_Micro_Q&G_KS_ | ide, NaOH>10 Cyanide) | LOT# 630 8010 | ate/time added. |
| Cyanide water sample checks: | | | |
| Lead acetate strip turns dark? (R | ecord only) | □Yes □No | |
| Potassium iodide test strip turns l | olue/purple? (Preserve |) | X |
| Trip Blank present: | | UYes No N/A | |
| Headspace in VOA vials (>6mm) |): | | |
| Samples from USDA Regulated A | Area: State: | | |
| Additional labels attached to 5035 | 5A / TX1005 vials in th | e field? 🛛 Yes 🗆 No 🖻 N/A | |
| Client Notification/ Resolution: | Сору | 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): | | | | | CHAIN-OF-CUSTODY Applytical Paguage Decument | | | | | | | LAB USE ONLY- Affix Workorder/Login Label Here | | | | | | | | | | | | | |
|---|--|---|--------------|---|---|----------------------------------|--|-------------------------|-----------|--------------|----------|--|-----------|--|--------------------------------|-----------|-----------|--------------|--------|---------------|---------------------------------|--------------------------------------|---|----------------------|--|
| /Pace | Pace Manyuca Nansas CHAIN-OF-COSTODY ANAIYUE 9608 Loiret Blvd., Lenexa, KS 66219 Chain-of-Custody is a LEGAL DOCIMENT | | | | | | | Myucal Request Document | | | | | 回然 | | | | | | | | | | | | |
| Company Namo | Frank Kanada Carta I I | | | | 0 · · /2 | | | | | | | | | | 18 | | | | | | | | | | |
| Street Address | | Contact/Report To: Jake Humphrey Phone #: (913)634-0605 | | | | | | | | | 20- | | | | | | | | | | | | | | |
| Street Address: 818 S Kansas Avenue, Topeka, KS 66612 | | | | | | | | | | | 14 | ÷., | | | | | | | | | | | | | |
| | | | | | E-Mail: jake.humphrey@evergy.com | | | | | | | Scan QK Lode for instructions | | | | | | | | | | | | | |
| Customer Project #- | | | | | Cc E-Mail: | | | | | | | | | | _ | | | | | | | | | | |
| Broject Name | | | | | | | | | | | | | | | Speci | fy Conta | ainer Siz | ze ** | | | **Containe 125mL, (5) | r Size: (1) 1L, (2 100mi, (6) 40m | ; 500mL, (3) 250 L vial, (7) EnCor | OmL, (4) .re, (8) | |
| Project Name: | JEC FAL CCR | | | | Invoice To: Lawrence Center | | | | | | | 3 | | | | | | | | | TerraCore, (9) 90mL, (10) Other | | | | |
| City Collection 1.6 | fraction (m. f | | | | Invoice E-Mail: evergyap@onlinecapturecenter.com Purchase Order # (if WSTR-2000095397 applicable) | | | | | | | | | identi | ify Cont | ainer Pr | reservat | tive Type | *** | | *** Preser | vative Types: (1) | None, (2) HNO | J3, (3) | |
| Site Collection Into | /Facility ID (as applicable): | | | | | | | | | | | | | () | | | | | | | H2504, (4) NaH504, (8 | HCl, (5) NaOH, () Sod. Thiosulfa | E) Zn Acetate, (te, (9) Ascorbic | ;7) : Acid. (10) | |
| | | | | | Ourses # | | | | | | | | | | An | alysis Re | equeste | ed | | | MeOH, (11 | Other | | | |
| Time Zone Callesta | | 14T [N] G | T () | | Quote #: | | (-) K | | | | | | | | | | - 1 | | | | Proj. I | Agr: | | o | |
| Data Deliverables: | | | I [] | | County / State or | igin of sample | (S): Kansas | 1.1.1. | | | | | | | | | | | | | Alice | Spiller | | Fied f | |
| 000000000000000000000000000000000000000 | | negulatory Pro | Bran (ov | , NCRA, EL | c as applicable: | Reportat | ble [] tes [/ | INO | | | | | | | | | | | | | AcctN | um / Client II |): | enti | |
| []Level II [] | Level III [] Level IV | | Ru | sh (Pre-a | pproval require | ed): | DW PWS | ID # or WW Pe | rmit # as | applicable | e: | | | | | | | | | | E Tabla | #. | | ce id | |
| | | [] Same Da | y[]1D | ay [X] 2 | Day [] 3 Day [|] Other | | | | | | | | | | | | | 2 | | Use Use | | | le le | |
| | | Date Results | cil | | | | Field Filtered (if a | pplicable): [|] Yes | [X]N | 0 | 1 | | | | | | | | | Profile | e / Template: | | onfou | |
| [] Other | | Requested: | >td | | | | Analysis: | | | | | | | | | | | | | | 965 | 5 | | 0-ro | |
| (B), Vapor (V), Surfa | ert in Matrix box below): Drink ace Water (SW) Sediment (SED) | ing Water (DW) Sludge (SL) - C: |), Ground ' | Water (GW | Waste Water (V Biotolid (BS) (| VW), Product ()ther (OT) | (P), Soil/Solid (SS), C | il (OL), Wipe | (WP), Ti | ssue (TS), | Bioassay | | 1 | | | | | | | | Prelog | ; / Bottle Ord | . iD: | u uo | |
| | ade mater (am), seament (ae) | /, JIUGEC (JL), C | | | Composi | te Start | Collected or Co | monsite End | 4 | Res (| hlorine | I As | | | | | | | | | EZ 3 | 107180 | | | |
| | Customer Sample ID | | Matrix * | Grab | Date | Time | Date | Time | Cont. | Results | Units | 200.6 | | | | | | | | | 5 | ample Cor | nment | Prese | |
| FAA-6 | | | WT | Grab | 2. | 2 | 5/14/24 | 1005 | 1 | ž | | X | | | | | | | | | 60 | 4930 | 760 | 2 | |
| | | | | | | | 1 | | | | | | | | | | | | - | | 100 | 11 | | - | |
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| Additional Instruction | ons from Pace®. | | | · | | Collectudo | | | | | | | | | | | | | | | | | | | |
| Additional instructions from Pace*: | | | | | Collected By | : M | att Van | derF | Putte | n | Custon | ner Rem | harks / S | s / Special Conditions / Possible Hazards: | | | | | | | | | | | |
| | | | | | | Signature | | | | | | # 600 | alorri | | There are in the second second | | | | (9.61) | - | | | | | |
| and the state | | | | | | Signature. | | | | | | # COC | olers. | | 12 | | | 0 | O | ic): C | 2-5 | D-9 | remp. (°C) | On Ice: | |
| Reinquided by/Company: (Signature) | | | | LOB ID12 Received by/Company: (Signature) | | | | | | | | Date/Tig | 1612 | 10 | 10 | 210 | Traci | king Number: | | | | | | | |
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| minquished by/Compa | any: (Signature) | | | Date/Time: | | | Received by/Company | r: (Signature) | | | | | | _ | Date/Tim | ie: | | | | - | | | | | |
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| Heinquished by/Company: (Signature) | | | | Date/Time: | | Received by/Company: (Signature) | | | | | | | | Date/Tim | ie: | | | | Р | age: 1 | L of | 1 | | | |
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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 @

ATTACHMENT 2-2 June 2024 Annual Assessment Sampling Event Laboratory Analytical Report


Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

August 01, 2024

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

RE: Project: JEC FAL CCR-Revised Report Pace Project No.: 60455244

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2024. 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 correct 200.7 metals list to match request on coc.

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

Sincerely,

Alice Spiller

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

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Nick Williams, Haley Aldrich





CERTIFICATIONS

Project: JEC FAL CCR-Revised Report Pace Project No.: 60455244

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



SAMPLE SUMMARY

Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 60455244001 | FAA-3-061924 | Water | 06/19/24 10:35 | 06/19/24 16:00 |
| 60455244002 | FAA-4-061924 | Water | 06/19/24 11:20 | 06/19/24 16:00 |
| 60455244003 | FAA-5-061924 | Water | 06/19/24 12:10 | 06/19/24 16:00 |
| 60455244004 | FAA-6-061924 | Water | 06/19/24 09:35 | 06/19/24 16:00 |
| 60455244005 | JEC-FAA-DUP-061924 | Water | 06/19/24 09:35 | 06/19/24 16:00 |



SAMPLE ANALYTE COUNT

Project:JEC FAL CCR-Revised ReportPace Project No.:60455244

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|-----------|----------|----------------------|------------|
| 60455244001 | FAA-3-061924 | EPA 200.7 | ARMN | 4 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JXD | 7 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | PL | 1 | PASI-K |
| 60455244002 | FAA-4-061924 | EPA 200.7 | ARMN | 4 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JXD | 7 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | PL | 1 | PASI-K |
| 60455244003 | FAA-5-061924 | EPA 200.7 | ARMN | 4 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JXD | 7 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | PL | 1 | PASI-K |
| 60455244004 | FAA-6-061924 | EPA 200.7 | ARMN | 4 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JXD | 7 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | PL | 1 | PASI-K |
| 60455244005 | JEC-FAA-DUP-061924 | EPA 200.7 | ARMN | 4 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JXD | 7 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | PL | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

Method: EPA 200.7

Description:200.7 Metals, TotalClient:Evergy Kansas Central, Inc.Date:August 01, 2024

General Information:

5 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.

Additional Comments:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

Method: EPA 6010

Description:6010 MET ICPClient:Evergy Kansas Central, Inc.Date:August 01, 2024

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Evergy Kansas Central, Inc.Date:August 01, 2024

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

Method: EPA 245.1

Description:245.1 MercuryClient:Evergy Kansas Central, Inc.Date:August 01, 2024

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:



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

Method: EPA 300.0

Description:300.0 IC Anions 28 DaysClient:Evergy Kansas Central, Inc.Date:August 01, 2024

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:

Analyte Comments:

QC Batch: 899592

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 3560933)
 - Fluoride
- BLANK (Lab ID: 3563283)
 - Fluoride
- FAA-3-061924 (Lab ID: 60455244001)
 - Fluoride
- FAA-4-061924 (Lab ID: 60455244002) • Fluoride
- FAA-5-061924 (Lab ID: 60455244003) • Fluoride
- FAA-6-061924 (Lab ID: 60455244004)
 - Fluoride
- JEC-FAA-DUP-061924 (Lab ID: 60455244005)
- Fluoride
- LCS (Lab ID: 3560934)
 - Fluoride
- LCS (Lab ID: 3563284)
 - Fluoride
- MS (Lab ID: 3560935) • Fluoride
- MS (Lab ID: 3560937)
 - Fluoride



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

 Method:
 EPA 300.0

 Description:
 300.0 IC Anions 28 Days

 Client:
 Evergy Kansas Central, Inc.

 Date:
 August 01, 2024

Analyte Comments:

QC Batch: 899592

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

• MSD (Lab ID: 3560936)

• Fluoride

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



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

| Sample: FAA-3-061924 | Lab ID: 60455244001 | | Collected: 06/19/24 | Collected: 06/19/24 10:35 | | i/19/24 16:00 N | 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 Analytica | Services - | Kansas City | | | | | | | |
| Barium, Total Recoverable | 0.025 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:30 | 7440-39-3 | | | |
| Beryllium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 09:48 | 06/24/24 11:30 | 7440-41-7 | | | |
| Chromium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:30 | 7440-47-3 | | | |
| Lead, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/21/24 09:48 | 06/24/24 11:30 | 7439-92-1 | | | |
| 6010 MET ICP | Analytical Meth | od: EPA 6 | 010 Preparation Meth | od: EF | PA 3010 | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Lithium, Total Recoverable | 0.020 | mg/L | 0.010 | 1 | 06/24/24 08:50 | 07/03/24 12:14 | 7439-93-2 | | | |
| 200.8 MET ICPMS | Analytical Meth | od: EPA 20 | 00.8 Preparation Meth | nod: E | PA 200.8 | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Antimony, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7440-36-0 | | | |
| Arsenic, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7440-38-2 | | | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7440-43-9 | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7440-48-4 | | | |
| Molybdenum, Total Recoverable | 0.0039 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7439-98-7 | | | |
| Selenium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7782-49-2 | | | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:25 | 7440-28-0 | | | |
| 245.1 Mercury | Analytical Meth | od: EPA 24 | 45.1 Preparation Meth | nod: E | PA 245.1 | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 06/27/24 13:39 | 06/28/24 14:11 | 7439-97-6 | | | |
| 300.0 IC Anions 28 Days | Analytical Meth | od: EPA 3 | 0.0 | | | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Fluoride | 0.63 | mg/L | 0.20 | 1 | | 06/26/24 21:03 | 16984-48-8 | N2 | | |



| Project: | JEC FAL CCR-Revised Report |
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Pace Project No.: 60455244

| Sample: FAA-4-061924 | Lab ID: 60455244002 | | Collected: 06/19/24 | Collected: 06/19/24 11:20 | | /19/24 16:00 N | latrix: 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 Analytica | Services - | Kansas City | | | | | | | | |
| Barium, Total Recoverable | 0.044 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:32 | 7440-39-3 | | | | |
| Beryllium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 09:48 | 06/24/24 11:32 | 7440-41-7 | | | | |
| Chromium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:32 | 7440-47-3 | | | | |
| Lead, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/21/24 09:48 | 06/24/24 11:32 | 7439-92-1 | | | | |
| 6010 MET ICP | Analytical Meth | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | | |
| | Pace Analytical Services - Kansas City | | | | | | | | | | |
| Lithium, Total Recoverable | 0.026 | mg/L | 0.010 | 1 | 06/24/24 08:50 | 07/03/24 12:19 | 7439-93-2 | | | | |
| 200.8 MET ICPMS | Analytical Meth | od: EPA 20 | 0.8 Preparation Meth | od: EF | PA 200.8 | | | | | | |
| | Pace Analytica | Services - | Kansas City | | | | | | | | |
| Antimony, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7440-36-0 | | | | |
| Arsenic, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7440-38-2 | | | | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7440-43-9 | | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7440-48-4 | | | | |
| Molybdenum, Total Recoverable | 0.0079 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7439-98-7 | | | | |
| Selenium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7782-49-2 | | | | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:34 | 7440-28-0 | | | | |
| 245.1 Mercury | Analytical Meth | od: EPA 24 | 5.1 Preparation Meth | od: EF | PA 245.1 | | | | | | |
| | Pace Analytica | Services - | Kansas City | | | | | | | | |
| Mercury | 0.91 | ug/L | 0.20 | 1 | 06/27/24 13:39 | 06/28/24 14:13 | 7439-97-6 | | | | |
| 300.0 IC Anions 28 Days | Analytical Meth | od: EPA 30 | 0.0 | | | | | | | | |
| | Pace Analytica | Services - | Kansas City | | | | | | | | |
| Fluoride | <0.20 | mg/L | 0.20 | 1 | | 06/26/24 21:21 | 16984-48-8 | N2 | | | |



| Project: | JEC FAL CCR-Revised Report |
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Pace Project No.: 60455244

| Sample: FAA-5-061924 | Lab ID: 60455244003 | | Collected: 06/19/2 | Collected: 06/19/24 12:10 | | /19/24 16:00 N | latrix: 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 Analytica | I Services - | Kansas City | | | | | | | |
| Barium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:35 | 7440-39-3 | | | |
| Beryllium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 09:48 | 06/24/24 11:35 | 7440-41-7 | | | |
| Chromium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:35 | 7440-47-3 | | | |
| Lead, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/21/24 09:48 | 06/24/24 11:35 | 7439-92-1 | | | |
| 6010 MET ICP | Analytical Meth | nod: EPA 60 | 010 Preparation Meth | od: EP | A 3010 | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | | |
| Lithium, Total Recoverable | 0.15 | mg/L | 0.010 | 1 | 06/24/24 08:50 | 07/03/24 12:21 | 7439-93-2 | | | |
| 200.8 MET ICPMS | Analytical Meth | nod: EPA 20 | 00.8 Preparation Met | nod: EF | PA 200.8 | | | | | |
| | Pace Analytica | I Services - | Kansas City | | | | | | | |
| Antimony, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7440-36-0 | | | |
| Arsenic, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7440-38-2 | | | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7440-43-9 | | | |
| Cobalt, Total Recoverable | 0.0022 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7440-48-4 | | | |
| Molybdenum, Total Recoverable | 0.022 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7439-98-7 | | | |
| Selenium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7782-49-2 | | | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:38 | 7440-28-0 | | | |
| 245.1 Mercury | Analytical Meth | nod: EPA 24 | 45.1 Preparation Met | nod: EF | PA 245.1 | | | | | |
| | Pace Analytica | I Services - | Kansas City | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 06/27/24 13:39 | 06/28/24 14:15 | 7439-97-6 | | | |
| 300.0 IC Anions 28 Days | Analytical Meth | nod: EPA 30 | 0.0 | | | | | | | |
| | Pace Analytica | I Services - | Kansas City | | | | | | | |
| Fluoride | 1.3 | mg/L | 0.20 | 1 | | 06/26/24 22:17 | 16984-48-8 | N2 | | |



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

| Sample: FAA-6-061924 | Lab ID: 6045 | 55244004 | Collected: 06/19/2 | 4 09:3 | 5 Received: 06 | i/19/24 16:00 N | latrix: 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 | | | | | | | |
| Barium, Total Recoverable | 0.019 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:37 | 7440-39-3 | | | |
| Beryllium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 09:48 | 06/24/24 11:37 | 7440-41-7 | | | |
| Chromium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:37 | 7440-47-3 | | | |
| Lead, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/21/24 09:48 | 06/24/24 11:37 | 7439-92-1 | | | |
| 6010 MET ICP | Analytical Meth | od: EPA 60 | 010 Preparation Meth | od: EF | PA 3010 | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Lithium, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/24/24 08:50 | 07/03/24 12:23 | 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 | 06/21/24 12:08 | 06/28/24 13:44 | 7440-36-0 | | | |
| Arsenic, Total Recoverable | 0.0099 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:44 | 7440-38-2 | | | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 06/21/24 12:08 | 06/28/24 13:44 | 7440-43-9 | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:44 | 7440-48-4 | | | |
| Molybdenum, Total Recoverable | 0.36 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:44 | 7439-98-7 | | | |
| Selenium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:44 | 7782-49-2 | | | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:44 | 7440-28-0 | | | |
| 245.1 Mercury | Analytical Meth | od: EPA 24 | 45.1 Preparation Meth | nod: E | PA 245.1 | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 06/27/24 13:39 | 06/28/24 14:20 | 7439-97-6 | | | |
| 300.0 IC Anions 28 Days | Analytical Meth | od: EPA 30 | 0.0 | | | | | | | |
| | Pace Analytical | Services - | Kansas City | | | | | | | |
| Fluoride | <0.20 | mg/L | 0.20 | 1 | | 06/26/24 22:35 | 16984-48-8 | N2 | | |



Project: JEC FAL CCR-Revised Report

Pace Project No.: 60455244

| Sample: JEC-FAA-DUP-061924 | Lab ID: 60455244005 | | Collected: 06/19/2 | Collected: 06/19/24 09:35 | | /19/24 16:00 M | latrix: Water | 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 Analytica | Services - | Kansas City | | | | | | | | |
| Barium, Total Recoverable | 0.018 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:38 | 7440-39-3 | | | | |
| Beryllium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 09:48 | 06/24/24 11:38 | 7440-41-7 | | | | |
| Chromium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 06/21/24 09:48 | 06/24/24 11:38 | 7440-47-3 | | | | |
| Lead, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/21/24 09:48 | 06/24/24 11:38 | 7439-92-1 | | | | |
| 6010 MET ICP | Analytical Meth | od: EPA 60 | 010 Preparation Meth | od: EF | PA 3010 | | | | | | |
| | Pace Analytica | Services - | Kansas City | | | | | | | | |
| Lithium, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 06/24/24 08:50 | 07/03/24 12:24 | 7439-93-2 | | | | |
| 200.8 MET ICPMS | Analytical Meth | 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 | 06/21/24 12:08 | 06/28/24 13:47 | 7440-36-0 | | | | |
| Arsenic, Total Recoverable | 0.010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:47 | 7440-38-2 | | | | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 06/21/24 12:08 | 06/28/24 13:47 | 7440-43-9 | | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:47 | 7440-48-4 | | | | |
| Molybdenum, Total Recoverable | 0.37 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:47 | 7439-98-7 | | | | |
| Selenium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:47 | 7782-49-2 | | | | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 06/21/24 12:08 | 06/28/24 13:47 | 7440-28-0 | | | | |
| 245.1 Mercury | Analytical Meth | od: EPA 24 | 15.1 Preparation Met | nod: E | PA 245.1 | | | | | | |
| | Pace Analytica | Services - | Kansas City | | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 06/27/24 13:39 | 06/28/24 14:22 | 7439-97-6 | | | | |
| 300.0 IC Anions 28 Days | Analytical Meth | od: EPA 30 | 0.0 | | | | | | | | |
| | Pace Analytica | Services - | Kansas City | | | | | | | | |
| Fluoride | <0.20 | mg/L | 0.20 | 1 | | 06/26/24 22:53 | 16984-48-8 | N2 | | | |



| Project: | JEC FAL CCR-Re | evised Report | | | | | | | | | | | |
|--------------------|-----------------|------------------|-----------------------|------------|------------|---------------|--------------|-------------|------------|------|--------|----------|--|
| Pace Project No.: | 60455244 | | | | | | | | | | | | |
| QC Batch: | 899929 | | Anal | ysis Metho | od: | EPA 245.1 | | | | | | | |
| QC Batch Method: | EPA 245.1 | | Analysis Description: | | | 245.1 Mercury | | | | | | | |
| | | | Labo | oratory: | l | Pace Analyt | ical Service | es - Kansas | s City | | | | |
| Associated Lab Sar | nples: 60455244 | 4001, 6045524400 | 2, 6045524 | 44003, 604 | 155244004, | 604552440 | 05 | | | | | | |
| METHOD BLANK: | 3562080 | | | Matrix: W | Vater | | | | | | | | |
| Associated Lab Sar | nples: 60455244 | 4001, 6045524400 | 2, 6045524 | 44003, 604 | 155244004, | 604552440 | 05 | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | | |
| Paran | neter | Units | Res | ult | Limit | Analy | /zed | Qualifiers | 6 | | | | |
| Mercury | | ug/L | | <0.20 | 0.2 | 0 06/28/24 | 4 13:41 | | | | | | |
| | | | | | | | | | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3562081 | | | | | | | | | | | |
| | | | Spike | LC | CS | LCS | % R | ec | | | | | |
| Paran | neter | Units | Conc. | Re | sult | % Rec | Limi | ts (| Qualifiers | | | | |
| Mercury | | ug/L | | 5 | 4.3 | 80 | 6 8 | 85-115 | | | | | |
| | | | | | | | | | | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE DU | PLICATE: 3562 | 082 | | 3562083 | 3 | | | | | | | |
| | | | MS | MSD | | | | | _ | | | | |
| - | | 60455226001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | <u> </u> | |
| Parameter | r Unit | s Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | | | Qual | |
| Mercury | ug/l | <0.20 | 5 | 5 | 4.4 | 4.3 | 88 | 86 | 70-130 | 2 | 20 | | |
| | | 2562084 | | | | | | | | | | | |
| WATNA OF INE OAI | | 5502004 | 60455 | 5244003 | Spike | MS | | MS | % Rec | : | | | |
| Parar | neter | Units | Re | esult | Conc. | Result | % | 6 Rec | Limits | | Qualif | iers | |
| Mercury | | ug/L | | <0.20 | 5 | | 4.4 | 87 | 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.



| QC Batch: 899115 Analysis Method: EPA 200.7 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total | |
|--|-----------|
| QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total Laboratory: Bace Applicities Springer, Kapper, Ka | |
| Laboratory Dava Analytical Services Kanaga City | |
| Laboratory. Face Analytical Services - Kansas City | |
| Associated Lab Samples: 60455244001, 60455244002, 60455244003, 60455244004, 60455244005 | |
| METHOD BLANK: 3558880 Matrix: Water | |
| Associated Lab Samples: 60455244001, 60455244002, 60455244003, 60455244004, 60455244005 | |
| Blank Reporting | |
| Parameter Units Result Limit Analyzed Qualifiers | |
| Barium mg/L <0.0050 0.0050 06/24/24 11:04 | |
| Beryllium mg/L <0.0010 0.0010 06/24/24 11:04 | |
| Chromium mg/L <0.0050 0.0050 06/24/24 11:04 | |
| Lead mg/L <0.010 0.010 06/24/24 11:04 | |
| LABORATORY CONTROL SAMPLE: 3558881 | |
| Spike LCS LCS % Rec | |
| | |
| Barium mg/L 1 0.95 95 85-115 | |
| Beryllium mg/L 1 0.97 97 85-115 | |
| Chromium mg/L 1 0.95 95 85-115 | |
| Lead mg/L 1 1.0 100 85-115 | |
| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558882 3558883 | |
| MS MSD | |
| 60455258001 Spike Spike MS MSD MS MSD % Rec Ma | ax |
| Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RP | PD Qual |
| Barium mg/L 11.6 ug/L 1 1 0.97 0.94 96 93 70-130 3 2 | 20 |
| Beryllium mg/L ND 1 1 0.95 0.96 95 96 70-130 0 2 | 20 |
| Chromium mg/L 28.0 ug/L 1 1 0.94 0.95 92 92 70-130 1 2 | 20 |
| Lead mg/L ND 1 1 0.91 0.90 91 90 70-130 1 2 | 20 |
| MATRIX SPIKE SAMPLE: 3558884 | |
| 60455244002 Spike MS MS % Rec | |
| Parameter Units Result Conc. Result % Rec Limits Qu | ualifiers |
| Barium mg/L 0.044 1 0.98 93 70-130 | |
| Beryllium mg/L <0.0010 1 0.95 95 70-130 | |
| Chromium mg/L <0.0050 1 0.94 94 70-130 | |
| Lead mg/L <0.010 1 0.95 95 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.



| Project: | JEC FAL (| CCR-Revi | sed Report | | | | | | | | | | | | |
|--------------------|-----------|----------|----------------|------------|-------------------------|---------------|------------|--------------|------------|------------|-----|-----|------|--|--|
| Pace Project No.: | 60455244 | | | | | | | | | | | | | | |
| QC Batch: | 899159 | | | Anal | ysis Meth | nod: E | EPA 200.8 | | | | | | | | |
| QC Batch Method: | EPA 200 | .8 | | Anal | Analysis Description: 2 | | 200.8 MET | - | | | | | | | |
| | | | | Labo | oratory: | F | Pace Analy | tical Servic | es - Kansa | s City | | | | | |
| Associated Lab Sar | mples: 60 |)4552440 | 01, 6045524400 | 2, 6045524 | 44003, 60 | 0455244004, (| 60455244 | 005 | | | | | | | |
| METHOD BLANK: | 3559112 | | | | Matrix: | Water | | | | | | | | | |
| Associated Lab Sar | mples: 60 |)4552440 | 01, 6045524400 | 2, 6045524 | 44003, 60 | 0455244004, (| 60455244 | 005 | | | | | | | |
| | | | | Blai | nk | Reporting | | | | | | | | | |
| Para | neter | | Units | Res | ult | Limit | Ana | llyzed | Qualifier | S | | | | | |
| Antimony | | | mg/L | < | 0.0010 | 0.001 | 0 06/28/2 | 24 13:19 | | | | | | | |
| Arsenic | | | mg/L | < | 0.0010 | 0.001 | 0 06/28/2 | 24 13:19 | | | | | | | |
| Cadmium | | | mg/L | <0 | .00050 | 0.0005 | 0 06/28/2 | 24 13:19 | | | | | | | |
| Cobalt | | | mg/L | < | 0.0010 | 0.001 | 0 06/28/2 | 24 13:19 | | | | | | | |
| Molybdenum | | mg/L | < | 0.0010 | 0.001 | 0 06/28/2 | 24 13:19 | | | | | | | | |
| Selenium | | | mg/L | < | 0.0010 | 0.001 | 0 06/28/2 | 24 13:19 | | | | | | | |
| Thallium | | | mg/L | < | 0.0010 | 0.001 | 0 06/28/2 | 24 13:19 | | | | | | | |
| LABORATORY CO | NTROL SAM | MPLE: | 3559113 | | | | | | | | | | | | |
| | | | | Spike | I | LCS | LCS | % R | ec | | | | | | |
| Parar | meter | | Units | Conc. | R | esult | % Rec | Lim | its (| Qualifiers | | | | | |
| Antimony | | | mg/L | 0.0 |)4 | 0.040 | 9 | 99 | 85-115 | | _ | | | | |
| Arsenic | | | mg/L | 0.0 | 04 | 0.039 | 9 | 97 | 85-115 | | | | | | |
| Cadmium | | | mg/L | 0.0 | 04 | 0.040 | 1(| 00 | 85-115 | | | | | | |
| Cobalt | | | mg/L | 0.0 | 04 | 0.039 | 9 | 98 | 85-115 | | | | | | |
| Molybdenum | | | mg/L | 0.0 |)4 | 0.040 | 9 | 99 | 85-115 | | | | | | |
| Selenium | | | mg/L | 0.0 |)4 | 0.040 | 1(| 00 | 85-115 | | | | | | |
| Thallium | | | mg/L | 0.0 |)4 | 0.041 | 10 | 03 | 85-115 | | | | | | |
| MATRIX SPIKE & M | ATRIX SPI | KE DUPL | .ICATE: 3559 | 114 | | 3559115 | | | | | | | | | |
| | | | | MS | MSD | | | | | | | | | | |
| | | | 60455244001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | | | |
| Paramete | r | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual | | |
| Antimony | | mg/L | <0.0010 | 0.04 | 0.0 | 4 0.037 | 0.038 | 93 | 95 | 70-130 | 2 | 20 | | | |
| Arsenic | | mg/L | <0.0010 | 0.04 | 0.0 | 4 0.039 | 0.040 | 96 | 98 | 70-130 | 2 | 20 | | | |
| Cadmium | | mg/L | <0.00050 | 0.04 | 0.0 | 4 0.036 | 0.036 | 89 | 91 | 70-130 | 2 | 20 | | | |
| Cobalt | | mg/L | <0.0010 | 0.04 | 0.0 | 4 0.037 | 0.038 | 91 | 93 | 70-130 | 2 | 20 | | | |
| Molybdenum | | mg/L | 0.0039 | 0.04 | 0.0 | 4 0.045 | 0.046 | 103 | 106 | 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.

0.04

0.04

0.039

0.039

0.039

0.040

97

96

98

99

70-130

70-130

1 20

3

20

REPORT OF LABORATORY ANALYSIS

Selenium

Thallium

mg/L

mg/L

< 0.0010

< 0.0010

0.04

0.04

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| Project: | JEC FAL CCR-Rev | ised Report | | | | | | | | | | |
|--------------------|------------------|-----------------|-----------|------------|-------------|--------------|------------|------------|------------|-----|-----|------|
| Pace Project No.: | 60455244 | | | | | | | | | | | |
| QC Batch: | 899281 | | Ana | lysis Meth | nod: | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Ana | lysis Desc | cription: | 6010 MET | | | | | | |
| | | | Lab | oratory: | | Pace Analyti | cal Servic | es - Kansa | s City | | | |
| Associated Lab Sar | mples: 604552440 | 001, 6045524400 | 2, 604552 | 44003, 60 | 0455244004, | 6045524400 |)5 | | | | | |
| METHOD BLANK: | 3559716 | | | Matrix: | Water | | | | | | | |
| Associated Lab Sar | mples: 604552440 | 01, 6045524400 | 2, 604552 | 44003, 60 | 0455244004, | 6045524400 |)5 | | | | | |
| | | | Bla | ank | Reporting | | | | | | | |
| Parar | neter | Units | Res | sult | Limit | Analy | zed | Qualifier | S | | | |
| Lithium | | mg/L | | <0.010 | 0.01 | 07/03/24 | 12:11 | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3559717 | | | | | | | | | | |
| | | | Spike | e l | _CS | LCS | % R | ес | | | | |
| Parar | neter | Units | Conc | . R | esult | % Rec | Limi | ts (| Qualifiers | | | |
| Lithium | | mg/L | | 1 | 1.0 | 102 | 2 8 | 30-120 | | | | |
| MATRIX SPIKE & N | ATRIX SPIKE DUP | LICATE: 3559 | 718 | | 355971 | 9 | | | | | | |
| | | | MS | MSD | | | | | | | | |
| David | | 60455244005 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | 0 |
| Paramete | r Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Lithium | mg/L | <0.010 | 1 | | 1 1.1 | 1.1 | 106 | 107 | 75-125 | 0 | 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.



| Project:JEC FAPace Project No.:604552 | L CCR-Rev 44 | vised Report | | | | | | | | | | |
|--|-----------------------|-----------------|--------------------------------------|---|------------------------------------|--|----------------------------|-------------|------------|--------|-------|-------|
| QC Batch:89959QC Batch Method:EPA 3Associated Lab Samples: | 2 00.0 60455244 | 001, 6045524400 | Analy Analy Labo 2, 6045524 | vsis Methoo vsis Descrij ratory: 4003, 604 | d: I ption: : I 55244004, | EPA 300.0 300.0 IC Ani Pace Analyt 6045524400 | ions ical Service 05 | es - Kansas | s City | | | |
| METHOD BLANK: 356093 | 3 | | | Matrix: W | ater | | | | | | | |
| Associated Lab Samples: | 60455244 | 001, 6045524400 | 2, 6045524 | 4003, 604 | 55244004, | 6045524400 | 05 | | | | | |
| Demonstra | | 11.5 | Blar | nk l | Reporting | A | | 0 | | | | |
| | | Units | | ult | Limit | Analy | /zed | Qualifiers | <u> </u> | | | |
| Fluoride | | mg/L | | <0.20 | 0.2 | 0 06/26/24 | 14:56 N | 12 | | | | |
| METHOD BLANK: 356328 | 3 | | | Matrix: W | ater | | | | | | | |
| Associated Lab Samples: | 60455244 | 001, 6045524400 | 2, 6045524 | 4003, 604 | 55244004, | 6045524400 | 05 | | | | | |
| Doromotor | | Linita | Blar | nk l | Reporting | Analy | and | Qualifiar | | | | |
| | | | | uit | | | | Quaimers | <u> </u> | | | |
| Fluoride | | mg/∟ | | <0.20 | 0.2 | 0 06/27/24 | 1 08:49 N | 12 | | | | |
| LABORATORY CONTROL S | SAMPLE: | 3560934 | | | | | | | | | | |
| Parameter | | Units | Spike Conc. | LC Res | S Sult | LCS % Rec | % Re Limit | ec ts (| Qualifiers | | | |
| Fluoride | | mg/L | 2. | 5 | 2.4 | 97 | 7 9 | 90-110 N2 | | _ | | |
| LABORATORY CONTROL S | AMPLE: | 3563284 | | | | | | | | | | |
| | | | Spike | LC | S | LCS | % Re | ec | | | | |
| Parameter | | Units | Conc. | Res | sult | % Rec | Limit | ts (| Qualifiers | _ | | |
| Fluoride | | mg/L | 2. | 5 | 2.5 | 102 | 2 9 | 90-110 N2 | | | | |
| MATRIX SPIKE & MATRIX S | | LICATE: 3560 | 935 | | 3560936 | ; | | | | | | |
| | | 60455224004 | MS Spiles | MSD | MC | MCD | MC | MCD | 0/ Dee | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Fluoride | mg/L | 2.2 | 2.5 | 2.5 | 4.8 | 4.6 | 104 | 98 | 80-120 | 3 | 15 | N2 |
| MATRIX SPIKE SAMPI F | | 3560937 | | | | | | | | | | |
| | | | 60455 | 199003 | Spike | MS | l | MS | % Rec | ; | | |
| Parameter | | Units | Re | sult | Conc. | Result | % | Rec | Limits | | Quali | fiers |
| Fluoride | | mg/L | | ND | 2.5 | | 2.6 | 106 | 80 | -120 N | 2 | |

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-Revised Report

Pace Project No.: 60455244

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

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

ace

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JEC FAL CCR-Revised Report

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|---------------------|
| 60455244001 | FAA-3-061924 | EPA 200.7 | 899115 | EPA 200.7 | 899144 |
| 60455244002 | FAA-4-061924 | EPA 200.7 | 899115 | EPA 200.7 | 899144 |
| 60455244003 | FAA-5-061924 | EPA 200.7 | 899115 | EPA 200.7 | 899144 |
| 60455244004 | FAA-6-061924 | EPA 200.7 | 899115 | EPA 200.7 | 899144 |
| 60455244005 | JEC-FAA-DUP-061924 | EPA 200.7 | 899115 | EPA 200.7 | 899144 |
| 60455244001 | FAA-3-061924 | EPA 3010 | 899281 | EPA 6010 | 899338 |
| 60455244002 | FAA-4-061924 | EPA 3010 | 899281 | EPA 6010 | 899338 |
| 60455244003 | FAA-5-061924 | EPA 3010 | 899281 | EPA 6010 | 899338 |
| 60455244004 | FAA-6-061924 | EPA 3010 | 899281 | EPA 6010 | 899338 |
| 60455244005 | JEC-FAA-DUP-061924 | EPA 3010 | 899281 | EPA 6010 | 899338 |
| 60455244001 | FAA-3-061924 | EPA 200.8 | 899159 | EPA 200.8 | 899179 |
| 60455244002 | FAA-4-061924 | EPA 200.8 | 899159 | EPA 200.8 | 899179 |
| 60455244003 | FAA-5-061924 | EPA 200.8 | 899159 | EPA 200.8 | 899179 |
| 60455244004 | FAA-6-061924 | EPA 200.8 | 899159 | EPA 200.8 | 899179 |
| 60455244005 | JEC-FAA-DUP-061924 | EPA 200.8 | 899159 | EPA 200.8 | 899179 |
| 60455244001 | FAA-3-061924 | EPA 245.1 | 899929 | EPA 245.1 | 900010 |
| 60455244002 | FAA-4-061924 | EPA 245.1 | 899929 | EPA 245.1 | 900010 |
| 60455244003 | FAA-5-061924 | EPA 245.1 | 899929 | EPA 245.1 | 900010 |
| 60455244004 | FAA-6-061924 | EPA 245.1 | 899929 | EPA 245.1 | 900010 |
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| 60455244001 | FAA-3-061924 | EPA 300.0 | 899592 | | |
| 60455244002 | FAA-4-061924 | EPA 300.0 | 899592 | | |
| 60455244003 | FAA-5-061924 | EPA 300.0 | 899592 | | |
| 60455244004 | FAA-6-061924 | EPA 300.0 | 899592 | | |
| 60455244005 | JEC-FAA-DUP-061924 | EPA 300.0 | 899592 | | |

Qualtrax Document ID: 30468

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| | | | Comments/ Resolution: |
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| | | ate/1ime: | Person Contacted: Da |
| | 2 | | Client Notification/ Resolution: Copy CC |
| Einld Data Required? Y / N | N/A N/A | ield? Ves No | Additional labels attached to 5035A / TX1005 vials in the f |
| | X N/A | □Yes □No | Samples from USDA Regulated Area: State: |
| | XN/A | □Yes □No | Headspace in VOA vials (>6mm): |
| | XNIA | KL-KIKOS NO | Trip Blank present: |
| | | | Potassium iodide test strip turns blue/purple / (Preserve) |
| | | | Cyanide water sample checks: Lead acetate strip turns dark? (Record only) |
| | | T#: | (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyalline) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) |
| ime added. | ZN/A List sa | □Yes □No | Containers requiring pH preservation in compliance? |
| the sub-standard the | DN/A | ∏Yes 🕅 No | complex contain multiple phases? Matrix: WT |
| | UN/A | MYes □No | Sample labels match COC: Date / time / ID / analyses |
| | XINIA | □Yes □No | Filtered volume received for dissolved tests? |
| | B N/A | □Yes □No [| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? |
| | N/A | MYes No [| Containers intact: |
| | JN/A | Yes No | Pare containers used: |
| | IN/A | XYes No [| Correct containers used: |
| |]N/A | XYes IND D | ufficient volume: |
| | IN/A | TYes XNO C | ush Turn Around Time requested: |
| | N/A | □Yes □No 🎽 | hort Hold Time analyses (<72hr): |
| | N/A | MYes INO | amples arrived within holding time: |
| | N/A | □Yes SNo □ | hain of Custody relinquished: |
| | N/A | Yes LINO L | hain of Custody present: |
| | | | imperature should be above freezing to 6°C |
| examining contents: ercur or no | rected 1.8 | or -0.0 Cor | ooler Temperature (°C): As-read 1.8 Corr. Fact |
| Date and initials of person | None | Ice: Wet Blue | ermometer Used: <u>1</u> -299 Type of |
| e ⊠ Other □ | | Seals intact: Te Foam | istody Seal on Cooler/Box Present: Yes Double Bace |
| | Ised? Yes L | Shipping Label U | acking #: Pace |

Courier:

FedEx 🗆

Client Name:

Evergy Kansas Central, Inc. UPS VIA Clay PEX

Pace 🗆

Xroads Client 🖬 Other 🗆 No 🐒

Yes 🛛

Pace

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

Revision: 2

Effective Date: 01/12/2022 Is

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| Nume: Usery Names Central, Inc. Nume: Old 244.0660 Nume: Section Section Nume: | Pace® Location Requeste Pace Analytical Kansas 9608 Loiret Blvd., Lenexa, KS | ed (City/State): 66219 | | CHA | Chain-of-Custod | STODY An ly is a LEGAL DO Jake Humph | ICUMENT - Comple | te all relevant | cum fields | ent | _ | | | | PM | AS | WES | TAR | Due Dat ENRGY | e: 07/05/2 | .4 |
| Addition Bits 3 Starses Avenue, Topeka, 35 Seniol Mail Jack-Understand Jack-Understand <thjack-understand< th=""> Jack-Understand</thjack-understand<> | any Name: Evergy Kansas Central, Inc | c. | | Pho | ne #: | (913)634-06 | 05 | | | | | | Wash | 69 | | | | | | | |
| Marked Differ Aufley Center au Aufley Reserved marked Reserved Column Res Under Rith Watter Vector Reserved Aufley Reserved | Address: 818 S Kansas Avenue, Top | peka, KS 66612 | | E-M | ail: | jake.humph skaney@ha | rey@evergy.cor leyaldrich.com | n | | | F | | | Spec | ify Contair | er Size ** | | | **Contain 125ml, (5 | st Size: (1) 1L, (2) 500mL, (1 100mL, (6) 40mL vial, (7) 5 m) 80mL (10) Other |) 250ad., (4 nCore, (8) |
| Building To FLA CGA Invite for the form of the segnificability in the | | | | LC . | -Wan, | | | | | | - | 2 3 | | T | | | | | TerraCore | (9) 90mc, (10) 90mc, (2) | HNO3, (3) |
| R1 Max JE FA LOR Index C Mail Description advance Description advance <thdescription ad<="" td=""><td>mer Project #:</td><td></td><td></td><td>line</td><td>oice To:</td><td>Jeffrey Cen</td><td>ter</td><td></td><td></td><td></td><td>+</td><td></td><td>Ide</td><td>entify Cor</td><td>ntainer Pre</td><td>servative</td><td>Type***</td><td></td><td>+** Prese</td><td>HCl, (5) NaOH, (6) Zn Ace</td><td>ate, (7)</td></thdescription> | mer Project #: | | | line | oice To: | Jeffrey Cen | ter | | | | + | | Ide | entify Cor | ntainer Pre | servative | Type*** | | +** Prese | HCl, (5) NaOH, (6) Zn Ace | ate, (7) |
| Distribution Distribution< | ct Name: JEC FAL CCR | | | Inv | oice E-Mail: | evergyap@ | onlinecapturece | enter.com | | | - | 2 | 1 | | | | | | NaHSO4, | (B) Sod. Thiosulfate, (9) Asi 1) Other | |
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| Display/registres/ Registres/ Regis | Zone Collected: [] AK [] PT [| MT [X]CI | Tram (DW) | RCRA, etc.) | as applicable: | Reportable | []Yes [X] | NO | | | | see | | | 1 1 | | | 1 1 | O Tab | le #: | |
| 11 Level N I Level NO I Rush (POR-approval required): I rest I res I res I re | a Deliverables: | Regulatory Prog | grann (o m | | | | DW PWSID | I or WW Perm | nit # əs a | pplicable: | | 9 | | 1 | 1 1 | | | | n qu | tile / Template: | |
| Light P | Level II [] Level IV | | Rus | h (Pre-ap) | proval required |): Other | | | | | | /90 | . 1 | | 1 1 | | | 1 1 | 96 | 1167 (Chipson) | |
| 1 CUUS Data Perults Analysis: Analysis: Analysis: Analysis: Analysis: Analysis: Analysis: Etc. | Treating Lease I Lease | [] Same Da | y []1Da | iy [] 2 Da | A [] 3 Day [] | | Field Filtered (if app | plicable): (|] Yes | [X]No | | 45.1 | ride | | | | | 1 / | Pre | log / Bottle Ord. ID: | |
| Indexerved: Index of the National State (SW), Sourd Water (SW), House National (SD), Sourd (|] EQUIS | Date Results | | | | | Analysis: | h. | MD) Tie | un (TS). E | lioassay | 812 | 3 | | | | | 1 / | EZ | 3118421 | 1 |
| Data | 2200 | Requested: | | Inter (GW) | Waste Water (W | W), Product (P) | , Soil/Solid (SS), Oil | (OL), Wipe (v | WP], 115 | sue (15/ | 900 Wales A. | l g | 5 | | 1 3 | | 1 | 1 1 | | Sample Comme | nt |
| Votegre (V), Sufface Water (SV), Su | other latrix Codes (Insert in Matrix box below): Driv | nking Water (DW) | , Ground V aulk (CK), U | eachate (LL) | , Biosolid (BS), O | ther (OT) | e-Il-sted or Con | nnosite End | # | Res. Ch | nlorine | | 8 | | | | 1 | 10 8 | N | Oumpie en | |
| Customer Sample ID Matrix Grab Time Ustage Mint S X | Vapor (V), Surface Water (SW), Sediment (SE | D), Sludge (Sc), ca | T | Comp / | Composit | e Start | Collected of coll | Time | Cont. | Results | Units | 50 | 30 | | | | | - | | | |
| FAA-3-06/9,24 WT Grab - G/19/24 10/35 2 - X X I I I FAA-3-06/9,24 WT Grab - G/19/24 1120 2 - X X I | Customer Sample ID | F | Matrix | Grab | Date | Time | Date | | | | | X | X | | | | | | | | |
| FAA-3-06/9.24 WT Grab - U/19/24 1120 2 - X X - - - U/19/24 1120 2 - X X - - I | | - | | Cab | ÷ | | 6/19/24 | 1035 | 2 | | - | - | - | | | | | | 1 | | |
| FAA.4-06 /h 24' WT Grab · · /////24 ////24 ///26 · X X I | FAA-3-06/924 | | WT | Grab | | | 41 1/21 | 1100 | 2 | | - | X | X | | - | | - | | | | |
| FAA.406 /gl_2/Y WT Grab - G/1gl_2/L D2/0 2 - X X Image: Constraint of the second | | 1 | WT | Grab | | | 6/19/24 | 1120 | - | - | | 1. | V | | | 1 1 | | | | | _ |
| FAA-5-06 9,24 WT Grab - - Gr (1/)/2/4 Q35 2 - X X I I I FAA-6-06 9,24 WT Grab - - G/1/9/2/4 Q35 2 - X X I | FAA-4-06 19 2 | 1 | 441 | | | | 1/1012 | 1210 | 2 | | • | X | X | - | | 1-1 | | | | | |
| FAA-6-06 /9 24 WT Grab - C /19 /24 /935 2 - X X I I IEC.FAA-DUP-06 /9 24 WT Grab - C /19 /24 /935 2 - X X I I I IEC.FAA-DUP-06 /9 24 WT Grab - C /19 /24 /935 2 - X X I <td>FAA 5-05 10 2</td> <td>Ч</td> <td>WT</td> <td>Grab</td> <td></td> <td></td> <td>611912</td> <td>10.00</td> <td>-</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | FAA 5-05 10 2 | Ч | WT | Grab | | | 611912 | 10.00 | - | | | X | X | | | | | | | | |
| FAA-6-06 /9 3.9 WT Grab Grab </td <td>FAA-S-OUT T</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>16/19/20</td> <td>1935</td> <td>2</td> <td></td> <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td>1</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> | FAA-S-OUT T | | | | | | 16/19/20 | 1935 | 2 | | | 1 | 1 | | | 1 | 6 | | | | |
| JEC-FAA-DUP-06) 924 WT Grab - C/19/24 9.55 - - Image: Control of the state o | FAA-6-06192 | 4 | WT | Grab | | | le le | 021 | 2 | (a) | | X | X | | | | | -+- | | | |
| JEC-FAA-DUP-06 / TAX With With <th< td=""><td>N N</td><td>0.74</td><td>WT</td><td>Grab</td><td>8</td><td></td><td>6/19/24</td><td>1933</td><td>1-</td><td>-</td><td>+</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td></th<> | N N | 0.74 | WT | Grab | 8 | | 6/19/24 | 1933 | 1- | - | + | - | | | | | | | | | _ |
| Image: Second | JEC-FAA-DUP-06 / | 727 | | | | | | | | | | | | | | - | | | | | |
| Additional instructions from Pace*: Collected By: Matt VanderPutten Collected By: Matt VanderPutten 200.7 Ba, Bc, Cr, Pb Signature: Matt VanderPutten Collected By: Matt VanderPutten 200.7 Ba, Bc, Cr, Pb Signature: Matt VanderPutten Collected By: Matt VanderPutten 200.8 Sb, As, Cd, Co, Mo, Se, II Signature: Matt VanderPutten Collected By: Matt VanderPutten 200.7 Ba, Bc, Cr, Pb Signature: Matt VanderPutten Collected By: Matt VanderPutten 200.7 Ba, Bc, Cr, Pb Signature: Matt VanderPutten Collected By: Thermometer ID: Correction Factor (*C): Obs. Temp. (*C) 201.1 Be Matt VanderPutten Signature: Matt VanderPutten Date/Time: Date/Time: Date/Time: Belinguished by/Company: (Signature) Matt VanderPutten Date/Time: [] FedEX [] UPS | | | | | | | | | - | | | | | | | 4 | | | | | |
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| Class Plastic Misc. C38 40mL HCl amber voa vial WGRU 402 clar soil jar BP1C 1 L NAOL plastic SP5 1 200m. Collorm Na Thiosulfa C394 40mL HCl amber vial WGRU 402 clar soil jar BP1C 1 L NAOL plastic SP5 1 200m. Collorm Na Thiosulfa C394 40mL HCl amber vial WGRU 402 clar soil jar BP1C 1 L NAOL plastic SP5 1 200m. Collorm Na Thiosulfa C394 40mL HCl amber vial WGRU 402 clar soil jar BP1C 1 L NAOL plastic SP5 1 200m. Collorm Na Thiosulfa C394 40mL HCl amber vial WGRU 402 clar soil jar BP1S 1 L NAOL plastic ZPLC Ziphc Bag C394 40mL HCl amber vial UGSU 402 cupreserved amber wide BP1U 1 L unpreserved plastic AF AF AF Car classettes C394 40mL Na Thio amber vial AGSU 100mL unores amber glass BP1Z 1 L NAOL Andette CA AF classettes C394 40mL Na Thio. clear vial AGSU 100mL unores amber g | | | - | 1 | | 1 | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | |
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| odds Plastic Misc. G9B 40mL bisulfate clear vial WGKU Boz clear soil jar BP1C 1L NAOH plastic I Wipe/Swab G9B 40mL Lisulfate clear vial WGEU 40z clear soil jar BP1N 1L HNO3 plastic SP5T 120mL Solom Na Thiosulfat G9M 40mL McCl amber voa vial WGEU 20z clear soil jar BP1N 1L HN2SO4 plastic ZPLC Ziploc Bag G9M 40mL McOH clear vial JGFU 40z unpreserved amber wide BP1S 1L NaSO4 plastic ZPLC Ziploc Bag G9G 40mL M2OH clear vial JGFU 40z unpreserved amber wide BP1Z 1L NaOH, Zn Acetate C Air Classettes G9S 40mL Na Thio amber vial AG1H 1L H2I amber glass BP2Z 500mL NAOH plastic R Terracore Kil G9T 40mL Na Thio amber vial AG1T 1L Na Thiosulfate clear/amber glass BP2N 500mL unpreserved plastic U Summa Can G9H 40mL Na Thio. clear vial AG1U 1liter unpres amber glass BP2Z 500mL unpreserved plastic U Summa Can G9H 40mL Na Thio. clear vial AG1U 1liter unpres amber glass BP2Z 500mL NaOH, Zn Acetate Matrix G9U | | | | | | | | | | | | | | | ÷ | | | - | | | | | | | | | | | | |
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| Glass Plastic Instruction G9B 40mL bisulfate clear vial WGRU 80z clear soil jar BP1C 11, NAOH plastic SP51 120mL Collform Na Thiosulfa G9H 40mL MeCh clear vial WGFU 40z clear soil jar BP1S 11, H2SO4 plastic SP51 120mL Collform Na Thiosulfa G9M 40mL MeOH clear vial WG2U 20z clear soil jar BP1S 11, L4SO4 plastic ZPLC Ziploc Bag G9M 40mL MeOH clear vial JGFU 40z unpreserved amber wide BP1U 11, unpreserved plastic AF Air Filter G9M 40mL Mas Thio amber vial AG1H 11, H2SO4 amber glass BP2C 500mL NAOH plastic R Terraccre Kit G9U 40mL amber vial AG1T 11, Na Thiosulfate clear/amber glass BP2S 500mL H2SO4 plastic U Summa Can G9H 40mL hol clear vial AG1U 11 liter unpres amber glass BP2L 500mL nupreserved plastic U Summa Can G9H 40mL unpreserved clear vial AG2S 500mL HNO3 amber glass BP2Z | Codes | | | | | | | | | | | | | | | Misc | | | | | | liec | | | | | | | | |
| G9B40mL bisulfate clear vialWGKUBoz clear soil jarBP1C1L HAOH plasticSP51120mL Coliform Na ThiosulfatG9H40mL HCI amber voa vialWGFU4oz clear soil jarBP1N1L H1N03 plasticZPLCZiploc BagG9M40mL MeOH clear vialWG2U2oz clear soil jarBP1S1L H2S04 plasticZPLCZiploc BagG9Q40mL TSP amber vialJGFU4oz unpreserved amber wideBP1U11. unpreserved plasticAFAir FilterG9S40mL H2G04 amber vialAG0U100mL unores amber glassBP1Z11. NaOH, Zn AcetateCAir CassettesG9T40mL amber unpreservedAG1S11. H2G04 amber glassBP2N500mL NAOH plasticUSumma CanG9H40mL Cl clear vialAG1T11. Na Thiosulfate clear/amber glassBP2S500mL NAOH plasticUSumma CanG9U40mL unpreserved clear vialAG1U11iter unpres amber glassBP2Z500mL NaOH plasticMatrixG9U40mL unpreserved clear vialAG2N500mL H2S04 amber glassBP3C250mL NaOH plasticMatrixG1U11iter unpres algassAG2S250mL H2S04 amber glassBP3C250mL NaOH plasticMatrixG3U250mL H2S04 clear glassAG3S250mL H2S04 amber glassBP3C250mL NaOH plasticSLG3U250mL Unpres Clear glassAG3U250mL unpres amber glassBP3C250mL Unpreserved plasticSLG3U250mL Unpres Clear soil jarAG4U125mL unpre | | | | | | | G | lass | | | | | | | | Plastic | | | | | + | Wipe/Swab | | | | | | | | |
| GSB Home HCB amber voa vial WGFU 402 clear soil jar BP1X 1L H2SO4 plastic ZPLC Ziploc Bag GS9M 40mL MeOH clear vial WG2U 2oz clear soil jar BP1S 1L H2SO4 plastic AF Air Filter IG9Q 40mL TSP amber vial JGFU 4oz unpreserved amber wide BP1U 1L unpreserved plastic AF Air Filter IG93 40mL ASO4 amber vial AG0U 100mL unores amber glass BP1Z 1L NaOH, Zn Acetate C Air Cassettes IG94 40mL Na Thio amber vial AG1H 1L H2SO4 amber glass BP2C 500mL NAOH plastic R Terracore Kit IG94 40mL Arbic dear vial AG1T 1L Na Thiosuffate clear/amber glass BP2S 500mL NAOH plastic U Summa Can IG94 40mL Na Thio. clear vial AG1U 1liter unpres amber glass BP2Z 500mL nopreserved plastic Matrix IG95 40mL Na Thio. clear vial AG2S 500mL H2O4 amber glass BP3C 250mL NaOH, Zn Acetate WT Water IG91 40mL unpreserved clear vial AG2S 500mL H2SO4 amber glass BP3C 250mL HNO3 p | DCOR | 140 | nl hisu | fate cle | ar vial | | | WGM | (U | 8oz c | lear so | oil jar | | | | BP10 | C. | 11L N | | lastic | | | | SP5 | T | 120r | nL Col | iform N | la Thio | sulfate |
| G9M 40mL MeOH clear vial WG2U 2/2 c/2 c/2 ar soli jar Drive Drive Drive AF Air Filter 059Q 40mL TSP amber vial JGFU 4/2 unpreserved amber wide BP1U 1L unpreserved plastic AF Air Cassettes 059S 40mL H2SO4 amber vial AG1H 1L HCI amber glass BP2C 500mL NAOH plastic R Terracore Kit 059U 40mL Amber unpreserved AG1S 1L H2SO4 amber glass BP2S 500mL HNO3 plastic U Summa Can 059U 40mL Anthor unpreserved clear vial AG1U 11 liter unpres amber glass BP2S 500mL unpreserved plastic U Summa Can 059U 40mL unpreserved clear vial AG1U 11 liter unpres glass BP2Z 500mL NAOH, Zn Acetate Matrix 059U 40mL unpreserved clear vial AG2S 500mL H2SO4 amber glass BP2Z 500mL NAOH, Zn Acetate Matrix 051U 11 liter unpres glass AG3S 250mL H2SO4 amber glass BP3F 250mL NAOH plastic KI Water 051U 11 liter unpres glass AG3S 250mL unpres amber glass BP3F 250mL NAOH plas | DG9B DG9H | 40 | nL HCI | amber | voa via | al | | WGF | U | 4oz c | lear so | oil jar | | | | BP1 | 5 | 1L F | 12SO4 | plastic | 5 | | | ZPL | С | Ziplo | oc Bag | | | |
| AGSQ 40mL TSP amber vial JGFU 402 unpresended annoer winde. 11 L NaOH, Zn Acetate C Air Cassettes VG9S 40mL H2SQ4 amber vial AG0U 100mL unores amber glass BP1Z 11 L NaOH, Zn Acetate R Terracore Kit VG9T 40mL Na Thio amber vial AG1H 11 L HCI amber glass BP2C 500mL NAOH plastic U Summa Can VG9U 40mL amber unpreserved AG1S 11 L Na Thiosulfate clear/amber glass BP2S 500mL H2SQ4 plastic U Summa Can VG9U 40mL unpreserved clear vial AG1U 11iter unpres amber glass BP2Z 500mL NaOH, Zn Acetate Water VG9U 40mL unpreserved clear vial AG2N 500mL HNO3 amber glass BP2Z 500mL NaOH, Zn Acetate Matrix VG9U 40mL unpreserved clear vial AG2N 500mL H2SQ4 amber glass BP3C 250mL NAOH plastic WT Water VG1U 11iter H2SQ4 amber glass AG2S 500mL H2SQ4 amber glass BP3F 250mL HNO3 plastic SL Solid VG1U 11iter unpres glass AG2U 500mL unpres amber glass BP3N 250mL HNO3 plastic S | DG9M | 40 | nL MeC |)H clea | r vial | | _ | WG2 | 20 | 2oz c | lear so | on jar | mbor | wide | | BP1 | <u></u> | 112. 0 | Inprese | erved p | olastic | | | AF | _ | Air F | ilter | | | |
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| 40mL Na Thio amber vial AGTN 1L H2SO4 amber glass BP2N 500mL HN03 plastic U Summa dum 0G9U 40mL amber unpreserved AGTS 1L H2SO4 amber glass BP2S 500mL H2SO4 plastic Image: constraint of the constand | DG9S | 40 | nL H2S | O4 am | ber via | | | AGU AG1 | Ч | 11. H | Clamb | per glas | S | | | BP2 | C | 500 | mL NA | OH pla | astic | | | R | | Sum | acure i | an | | |
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| CG9H 40mL Horitidal Vial AG1U 1liter unpres amber glass BP2U 500mL unpreserved plastic Matrix /G9U 40mL Na Thio. clear vial AG2N 500mL HNO3 amber glass BP2Z 500mL NaOH, Zn Acetate Matrix /G9U 40mL unpreserved clear vial AG2S 500mL HNO3 amber glass BP3C 250mL NaOH plastic WT Water /G1U 1liter H2SO4 clear glass AG3S 250mL H2SO4 amber glass BP3F 250mL HNO3 plastic - field filtered WT Water /G3H 250mL HCL Clear glass AG2U 500mL unpres amber glass BP3N 250mL HNO3 plastic SL Solid /G3H 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3N 250mL unpreserved plastic NAL Non-aqueous Liquid /G3U 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3S 250mL NaOH, Zn Acetate WP Wipe //G3U 16oz clear soil jar AG4U 125mL unpres amber glass BP3Z 250mL NaOH, Zn Acetate WP Wipe ///G3U 16oz clear soil jar AG4U 125mL unpres amber glass BP4N 125mL HNO3 pla | DG9U | 40 | TL amb | cloar v | ial | 50 | | AG1 | T | 1L N | a Thio | sulfate | clear/a | amber | glass | BP2 | S | 500 | mL H2 | SO4 p | lastic | otio | | - | | | | | | |
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| Ostion Marca glass AG2S 500mL H2SO4 amber glass BP3C 250mL NaOn plastic - field filtered WT Water 3G1S 11iter unpres glass AG3S 250mL H2SO4 amber glass BP3F 250mL HNO3 plastic - field filtered WT Water 3G1U 11iter unpres glass AG2U 500mL unpres amber glass BP3N 250mL HNO3 plastic SL Solid 3G3H 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3U 250mL unpreserved plastic NAL Non-aqueous Liquid 3G3U 250mL Unpres Clear glass AG4U 125mL unpres amber glass BP3S 250mL H2SO4 plastic OL OIL VGDU 16oz clear soil jar AG4U 125mL unpres amber glass BP3Z 250mL NaOH, Zn Acetate WP Wipe | VG91 | 40 | ml unp | reserve | d clea | r vial | | AG2 | N | 500r | nL HN | O3 amb | oer gla | ISS | | BP2 | Z | 500 | mL Na | OH, Z | n Aceu | ale | | | | | îV | latrix | | |
| 3G1U 11iter unpres glass AG3S 250mL H2SO4 amber glass BP3N 250mL HNO3 plastic SL Solid 3G3H 250mL HCL Clear glass AG2U 500mL unpres amber glass BP3N 250mL unpreserved plastic NAL Non-aqueous Liquid 3G3U 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3N 250mL H2SO4 plastic OL OIL VGDU 16oz clear soil jar AG4U 125mL unpres amber glass BP3Z 250mL NaOH, Zn Acetate WP Wipe BP4U 125mL unpreserved plastic DW Drinking Water | BG1S | 1111 | er H2S | O4 clea | r glass | S | | AG2 | S | 500r | nL H2 | SO4 am | nber g | ass | | BP3 | E | 250 | mL HN | 103 pl | astic - 1 | ield filt | ered | WT | | Wa | ler | | | |
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| 3G3U 250mL Unpres Clear glass AG3U 250mL unpres amber glass BP3S 250mL H2SO4 plastic OL OIL VGDU 16oz clear soil jar AG4U 125mL unpres amber glass BP3S 250mL NaOH, Zn Acetate WP Wipe AG5U 100mL unpres amber glass BP3Z 250mL NaOH, Zn Acetate DW Drinking Water BP4U 125mL unpreserved plastic DW Drinking Water BP4N 125mL H2SO4 plastic BP4N 125mL H2SO4 plastic | BG3H | 25 | OmL HC | CL Clea | r glass | 5 | | AG2 | 0 | 500mL unpres amber glass | | | BP3 | U | 250 | mL un | preser | ved pla | astic | | NA | - | Nor | n-aque | ous Lic | uid | _ | | | |
| NGDU 16oz clear soil jar AG40 120mL unpresidence glass BP3Z 250mL NaOH, Zn Acetate WP Wipe AG5U 100mL unpresidence glass BP4U 125mL unpreserved plastic DW Drinking Water BP4N 125mL HNO3 plastic BP4S 1125mL H2SO4 plastic | BG3U | 25 | OmL Un | pres C | lear gl | ass | | AG3 | 50 | 105 | nt unr | JIES am | her al | ass | | BP3 | s | 250 | mL H2 | SO4 | olastic | | | OL | | OIL | | | | |
| Image: AG50 Provinc onpresented grade BP4U 125mL unpreserved plastic DW Drinking Water BP4N 125mL HNO3 plastic BP4S 125mL H2SO4 plastic | WGDU | 16 | oz clear | r soil jai | r | | | AGA | U III | 120 | nL un | ares am | iber al | ass | | BP3 | Z | 250 |)mL Na | OH, Z | n Acet | ate | | WF | 2 | Wip |)e | Valar | | |
| BP4N 125mL HNO3 plastic BP4S 125mL H2SO4 plastic | | | | | | | | IAGE | 0 | 11001 | nc un | | and gi | | | BP4 | U | 125 | 5mL un | prese | rved pla | astic | | DN | / | Drin | nking V | vater | | |
| BP4S 125mL H2SO4 plastic | | | | | | | | | | | | | | | | BP4 | N | 125 | 5mL HN | 103 p | lastic | | | - | | | | | | |
| | | | | | | | | | | | | | | | | BP4 | S | 125 | 5mL H2 | 2504 | plastic | | | _ | | | | | | |
| | | | | | | | | | | | | | | | | | | | | and the second se | | | | | | | | | | |

Work Order Number:

60455244



Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

July 19, 2024

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

RE: Project: JEC FAL CCR RADCHEM Pace Project No.: 60455263

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2024. 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 alice.spiller@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

cc: Shelly Gomez, Evergy Laura Hines, Evergy, Inc. Shannon Hughes, Evergy Adam Irvin, Evergy Samantha Kaney, Haley & Aldrich Nick Williams, Haley Aldrich





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: JEC FAL CCR RADCHEM Pace Project No.: 60455263

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



SAMPLE SUMMARY

Project:JEC FAL CCR RADCHEMPace Project No.:60455263

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 60455263001 | FAA-3-061924 | Water | 06/19/24 10:35 | 06/19/24 16:00 |
| 60455263002 | FAA-4-061924 | Water | 06/19/24 11:20 | 06/19/24 16:00 |
| 60455263003 | FAA-5-061924 | Water | 06/19/24 12:10 | 06/19/24 16:00 |
| 60455263004 | FAA-6-061924 | Water | 06/19/24 09:35 | 06/19/24 16:00 |
| 60455263005 | JEC-FAA-DUP-061924 | Water | 06/19/24 09:35 | 06/19/24 16:00 |



SAMPLE ANALYTE COUNT

Project:JEC FAL CCR RADCHEMPace Project No.:60455263

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|--------------------------|----------|----------------------|------------|
| 60455263001 | FAA-3-061924 | EPA 903.1 | DMC | 1 | PASI-PA |
| | | EPA 904.0 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60455263002 | FAA-4-061924 | EPA 903.1 | DMC | 1 | PASI-PA |
| | | EPA 904.0 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60455263003 | FAA-5-061924 | EPA 903.1 | DMC | 1 | PASI-PA |
| | | EPA 904.0 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60455263004 | FAA-6-061924 | EPA 903.1 | DMC | 1 | PASI-PA |
| | | EPA 904.0 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 60455263005 | JEC-FAA-DUP-061924 | EPA 903.1 | DMC | 1 | PASI-PA |
| | | EPA 904.0 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| | | | | | |

PASI-PA = Pace Analytical Services - Greensburg



Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

Method: EPA 903.1

Description:903.1 Radium 226Client:Evergy Kansas Central, Inc.Date:July 19, 2024

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:



Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

Method: EPA 904.0

Description:904.0 Radium 228Client:Evergy Kansas Central, Inc.Date:July 19, 2024

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:



Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

Method: Total Radium Calculation

Description:Total Radium 228+226Client:Evergy Kansas Central, Inc.Date:July 19, 2024

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.

ace°

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

| Sample: FAA-3-061924 PWS: | Lab ID: 60455263 Site ID: | 001 Collected: 06/19/24 10:35 Sample Type: | Received: | 06/19/24 16:00 N | latrix: Water | |
|------------------------------|------------------------------|---|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.0567 ± 0.369 (0.744) C:NA T:92% | pCi/L | 07/11/24 12:42 | 13982-63-3 | |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.824 ± 0.435 (0.762) C:74% T:86% | pCi/L | 07/11/24 15:17 | 15262-20-1 | |
| | Pace Analytical Serv | ices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.881 ± 0.804 (1.51) | pCi/L | 07/12/24 16:07 | 7440-14-4 | |

ace°

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

| Sample: FAA-4-061924 PWS: | Lab ID: 60455 Site ID: | 263002 Collected: 06/19/24 11:20 Sample Type: | Received: | 06/19/24 16:00 M | fatrix: Water | |
|------------------------------|-----------------------------|--|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical S | Gervices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.219 ± 0.402 (0.717) C:NA T:88% | pCi/L | 07/11/24 12:42 | 13982-63-3 | |
| | Pace Analytical S | Services - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.461 ± 0.396 (0.789) C:76% T:79% | pCi/L | 07/11/24 15:17 | 15262-20-1 | |
| | Pace Analytical S | Services - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.680 ± 0.798 (1.51) | pCi/L | 07/12/24 16:07 | 7440-14-4 | |

ace[®]

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

| Sample: FAA-5-061924 PWS: | Lab ID: 6045526 Site ID: | 3003 Collected: 06/19/24 12:10 Sample Type: | Received: | 06/19/24 16:00 N | Aatrix: Water | |
|------------------------------|-----------------------------|--|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Ser | vices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.492 ± 0.445 (0.656) C:NA T:88% | pCi/L | 07/11/24 12:42 | 13982-63-3 | |
| | Pace Analytical Ser | vices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | -0.0137 ± 0.366 (0.866) C:68% T:83% | pCi/L | 07/11/24 15:17 | 15262-20-1 | |
| | Pace Analytical Ser | vices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.492 ± 0.811 (1.52) | pCi/L | 07/12/24 16:07 | 7440-14-4 | |

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Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

| Sample: FAA-6-061924 PWS: | Lab ID: 60455263 Site ID: | 004 Collected: 06/19/24 09:35 Sample Type: | Received: | 06/19/24 16:00 N | Aatrix: Water | |
|------------------------------|------------------------------|---|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Servi | ices - Greensburg | | | | |
| Radium-226 | EPA 903.1 | 0.389 ± 0.568 (0.968) C:NA T:93% | pCi/L | 07/11/24 12:42 | 13982-63-3 | |
| | Pace Analytical Servi | ices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.565 ± 0.387 (0.739) C:79% T:82% | pCi/L | 07/11/24 15:17 | 15262-20-1 | |
| | Pace Analytical Servi | ices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.954 ± 0.955 (1.71) | pCi/L | 07/12/24 16:07 | 7440-14-4 | |
ace°

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

| Sample: JEC-FAA-DUP-061924 PWS: | Lab ID: 6045526 Site ID: | 63005 Collected: 06/19/24 09:35 Sample Type: | Received: | 06/19/24 16:00 M | Aatrix: Water | |
|------------------------------------|-----------------------------|--|-----------|------------------|---------------|------|
| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
| | Pace Analytical Se | rvices - Greensburg | | | _ | |
| Radium-226 | EPA 903.1 | 0.187 ± 0.534 (0.991) C:NA T:82% | pCi/L | 07/11/24 12:42 | 13982-63-3 | |
| | Pace Analytical Se | rvices - Greensburg | | | | |
| Radium-228 | EPA 904.0 | 0.550 ± 0.350 (0.651) C:79% T:90% | pCi/L | 07/11/24 15:17 | 15262-20-1 | |
| | Pace Analytical Se | rvices - Greensburg | | | | |
| Total Radium | Total Radium Calculation | 0.737 ± 0.884 (1.64) | pCi/L | 07/12/24 16:07 | 7440-14-4 | |



QUALITY CONTROL - RADIOCHEMISTRY

| Project: | JEC FAL CCR RA | DCHEM | | | | | |
|--------------------|-----------------|-----------------|----------------------------|-----------------|----------------------|------------|--|
| Pace Project No.: | 60455263 | | | | | | |
| QC Batch: | 678399 | | Analysis Method: | EPA 903.1 | | | |
| QC Batch Method: | EPA 903.1 | | Analysis Description: | 903.1 Radium-2 | 26 | | |
| | | | Laboratory: | Pace Analytical | Services - Greensbur | g | |
| Associated Lab Sam | nples: 60455263 | 001, 6045526300 | 2, 60455263003, 6045526300 | 04, 60455263005 | | | |
| METHOD BLANK: | 3303058 | | Matrix: Water | | | | |
| Associated Lab Sam | nples: 60455263 | 001, 6045526300 | 2, 60455263003, 6045526300 | 04, 60455263005 | | | |
| Param | neter | Act ± l | Jnc (MDC) Carr Trac | Units | Analyzed | Qualifiers | |
| Radium-226 | | -0.0395 ± 0.180 | (0.425) C:NA T:91% | pCi/L | 07/11/24 12:42 | | |

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.



QUALITY CONTROL - RADIOCHEMISTRY

| Project: | JEC FAL CCR RA | DCHEM | | | | |
|--------------------|-----------------|--|-----------------|----------------------|------------|--|
| Pace Project No.: | 60455263 | | | | | |
| QC Batch: | 678401 | Analysis Method: | EPA 904.0 | | | |
| QC Batch Method: | EPA 904.0 | Analysis Description: | 904.0 Radium 2 | 28 | | |
| | | Laboratory: | Pace Analytical | Services - Greensbur | g | |
| Associated Lab Sam | nples: 60455263 | 3001, 60455263002, 60455263003, 6045526300 | 04, 60455263005 | | | |
| METHOD BLANK: | 3303059 | Matrix: Water | | | | |
| Associated Lab Sam | nples: 60455263 | 3001, 60455263002, 60455263003, 6045526300 | 04, 60455263005 | | | |
| Param | neter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers | |
| Radium-228 | | 0.312 ± 0.410 (0.871) C:70% T:75% | pCi/L | 07/11/24 15:18 | | |

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.



QUALIFIERS

Project: JEC FAL CCR RADCHEM

Pace Project No.: 60455263

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:JEC FAL CCR RADCHEMPace Project No.:60455263

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|--------------------------|----------|-------------------|---------------------|
| 60455263001 | FAA-3-061924 | EPA 903.1 | 678399 | | |
| 60455263002 | FAA-4-061924 | EPA 903.1 | 678399 | | |
| 60455263003 | FAA-5-061924 | EPA 903.1 | 678399 | | |
| 60455263004 | FAA-6-061924 | EPA 903.1 | 678399 | | |
| 60455263005 | JEC-FAA-DUP-061924 | EPA 903.1 | 678399 | | |
| 60455263001 | FAA-3-061924 | EPA 904.0 | 678401 | | |
| 60455263002 | FAA-4-061924 | EPA 904.0 | 678401 | | |
| 60455263003 | FAA-5-061924 | EPA 904.0 | 678401 | | |
| 60455263004 | FAA-6-061924 | EPA 904.0 | 678401 | | |
| 60455263005 | JEC-FAA-DUP-061924 | EPA 904.0 | 678401 | | |
| 60455263001 | FAA-3-061924 | Total Radium Calculation | 682190 | | |
| 60455263002 | FAA-4-061924 | Total Radium Calculation | 682190 | | |
| 60455263003 | FAA-5-061924 | Total Radium Calculation | 682190 | | |
| 60455263004 | FAA-6-061924 | Total Radium Calculation | 682190 | | |
| 60455263005 | JEC-FAA-DUP-061924 | Total Radium Calculation | 682190 | | |

| | | | W0#:60455263 |
|---|---|---------------------------|--|
| Pace | DC#_Title: ENV-F | RM-LENE-0009_Sample | e C 60455263 |
| NHI/TICH (REPORTS | Revision: 2 | Effective Date: 01/12/202 | ISSUED Dy. LETTERS |
| Client Name: Eve | rau Kansas Cen | tral, Inc. | |
| Courier: FedEx UPS | 🗆 VIA 🗆 🛛 Clay (| | Pace 🗆 🛛 Xroads 🗆 Client 🖬 🛛 Other 🗀 |
| Tracking #: | | Pace Shipping Label Used? | PYes 🗆 No 🕱 |
| Custody Seal on Cooler/Box | Present: Yes 🗆 🛛 No | □ Seals intact: Yes □ | No 🗆 |
| Packing Material: Bubble | e Wrap 🗋 🛛 Bubble I | Bags 🗆 🛛 🛛 🗖 | None 🕅 Other 🗆 |
| Thermometer Used: | <u>299</u> т | ype of Ice: Wet Blue None | Date and initials of person |
| Cooler Temperature (°C): | s-read 11.8 Con | r. Factor -0.0 Correcte | d 11.8 examining contents: 6/20/24 KL |
| Temperature should be above free | zing to 6°C | | |
| Chain of Custody present: | | XYes No N/A | |
| Chain of Custody relinquished: | | □Yes 🗷No □N/A | |
| Samples arrived within holding | time: | XYes No N/A | |
| Short Hold Time analyses (<7 | 72hr): | □Yes □No 🕅N/A | |
| Rush Turn Around Time requ | iested: | □Yes 🗷No □N/A | |
| Sufficient volume: | | XYes No N/A | |
| Carroct containers used | | XYes No N/A | |
| Conect containers used. | | | |
| Pace containers used: | | | |
| Containers intact: | | | |
| Unpreserved 5035A / TX1005/ | 1006 soils frozen in 48hr | s? ∐Yes ∐No ⊠N/A | |
| Filtered volume received for dis | solved tests? | Yes No 🕅 N/A | |
| Sample labels match COC: Da | te / time / ID / analyses | ⊠Yes □No □N/A | |
| Samples contain multiple phase | es? Matrix:wT | □Yes 🞾No □N/A | |
| Containers requiring pH preser (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 St (Exceptions: VOA, Micro, O&G, KS | vation in compliance? ılfide, NaOH>10 Cyanide) S TPH, OK-DRO) | □Yes □No 20N/A [LOT#: | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| Cyanide water sample checks: | (Record only) | Yes Mo | |
| Potassium iodide test strip turn | s blue/purple? (Preserve | e) 🛛 Yes 🗆 No | |
| Trip Blank present: | | | |
| Headspace in VOA vials (>6m | m): | □Yes □No ⊠N/A | |
| Samples from USDA Regulated | d Area: State: | □Yes □No ⊠N/A | |
| Additional labels attached to 50 |) 35A / TX1005 vials in th | e field? □Yes □No ⊠N/A | |
| Client Notification/ Resolution | n: Copy | COC to Client? Y / N | Field Data Required? Y / N |
| Person Contacted: | | Date/Time: | |
| Comments/ Resolution: | | | |
| | | | |
| Project Manager Review: | | Date | |

| 0 | Pace [®] Location Reques | ted (City/Sta | te): | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------------|--------------------|--------------|------------|-------------------------|----------------------------------|------------------------|-----------------|-----------|--------------|-------------------------|--|----------|---------|------------|-------------|-----------|------------|-----------|---------------|---------------------------------|---|-----------------------------|--------------|
| Pare | Pace Analytical Kansas | | , | (| CHAIN-OF- | CUSTODY | Analytical | Request | Docu | ument | t | LAB USE ONLY- ATTIX WORKORDER/LOGIN Label Here | | | | | | | | | | | | |
| 1 400 | 9608 Loiret Blvd., Lenexa, K | S 66219 | | | Chain-of-Cu | stody is a LEG | AL DOCUMENT - Co | mplete all rele | evant fie | elds | | | | | 22 | | , | | | | | | | |
| Company Name: | Evergy Kansas Central, Ir | пс. | | | Contact/Report T | o: Jake Hu | Imphrey | | _ | | | | E. | 100 | | | | ~ 1 | 1-0 | \sim | 17 | | | |
| Street Address: | 818 S Kansas Avenue, To | peka, KS 666 | 12 | | Phone #: | (913)63 | 4-0605 | | | | | | 另 | - 17 | | | C | | (5) |) [| • > | | | |
| | | | | | E-Mail: | jake.hu | mphrey@evergy. | com | | | | | | 14 | ês, | Sca | an OR | Code f | or instri | uctions | s | | | |
| | | | | | Cc E-Mail: | skanev | @halevaldrich.co | m | | | | | | 8441D4 | 1.18 | | | | | 0000110 | | | | |
| Customer Project #: | | | | | | , | 2 | | | | | | | | Specify | Containe | - Sizo ** | | | 10 | **Container Siz | e: (1) 1L. (2) 500ml | L. (3) 250m | nL. (4) |
| Project Name: | JEC FAL CCR RADCHEM | | | | Invoice To: | Jeffrey | Center | | | | _ | 1 | 1 | | Speerry | Container | Jize | 1 | T T | | 125mL, (5) 100n | nL, (6) 40mL vial, (7 | 7) EnCore, | (8) |
| | | | | | Invoice E-Mail: | evereva | ap@onlinecapture | ecenter.com | | | | - | - | Ident | ify Contai | ner Proso | T avitev | VD0*** | | f | erracore, (9) 90 | JmL, (10) Other | | |
| Site Collection Info/ | Facility ID (as applicable): | | | | Purchase Order # | (if WSTR-2 | 2000095397 | | - | | | 7 | 2 | | | | Valive 1 | | 1 1 | | Preservative H2SO4, (4) HCl, | Types: (1) None, ((5) NaOH, (6) Zn Aı | ,2) HNO3, (.cetate, (7) | (3) |
| | | | | | applicable): | | | | | | | - | <u> </u> | | Ana | vsis Reau | ested | | | N | NaHSO4, (8) Soc | i Thiosulfate, (9) A | scorbic Ac | :id, (10) |
| | | | | | Quote #: | | | | | | | | | | | 1000 | T | | | ^ | Droi Mar | 21 | | |
| Time Zone Collected | d:[]AK []PT [] | MT [X]C | r []E | т | County / State or | igin of sample | (s): Kansas | | | | | | ets | | | | | | | | Alice Sp | iller | | d for |
| Data Deliverables: | | Regulatory Pro | ogram (DW | , RCRA, et | c.) as applicable: | Reporta | ble []Yes [X |] No | | | | | She | | | | | | | | AcctNum | / Client ID: | | Itifie |
| []levelII [] | evel III []] evel IV | | | | | | | | | | | | 1 No | | | | | | | 2 | 2 | | | ider |
| [] Leven [] | Level in [] Level iv | []Samo D | Ru | sh (Pre-a | pproval require | d): | DW PWS | ID # or WW Pe | rmit # as | applicable | e: | | gd, 0 | | | | | | | C | 그 및 Table #: | | | ance |
| [] EQUIS | | Data Basulta | ay [] I L | ayljzi | Day [] 5 Day [| j Other | Field Filtered (if a | | 1 Voc | [V] No | | | più | | | | | | | 1 | | | | form nple |
| [] Other | | Requested: | | | | | Analysis: | oplicable). [| Jies | [A] NC | , | | L mos | | | | | 1 | 1 | <u> </u> | 9655 | emplate: | | -con |
| * Matrix Codes (Inse | ert in Matrix box below): Drink | ing Water (DW) | , Ground \ | Vater (GW |), Waste Water (V | VW), Product (| P), Soil/Solid (SS), O | II (OL), Wipe I | WP), Ti | ssue (TS), | Bioassay | 56 | 58, 6 | | | | | | | | Prelog / B | ottle Ord, JD: | | ппог |
| (B), Vapor (V), Surfa | ce Water (SW),Sediment (SED) |), Sludge (SL), Ca | aulk (CK), L | eachate (L | L), Biosolid (BS), C | ther (OT) | 1 | | | | | 8 | 17 17 | | | | 6 | | | | EZ 311 | 3435 | | /atio |
| C | Customer Sample ID | | Matrix * | Comp / | Composit | te Start | Collected or Cor | nposite End | # | Res. C | hlorine | diu | diu | | | | | | | | Sam | nie Commer | 1t | esen |
| | | | | Grab | Date | Time | Date | Time | Cont. | Results | Units | Ra | R R | | | _ | _ | | | | | | | r. |
| | FAA-3-061924 | | WT | Grab | 5 | 121 | L/19/24 | 1035 | 2 | | | X | X | | | | | | | | | | | |
| | EAA 4 06 19 24 | | 407 | Carl | | 1211 | 1 1 2 2 2 1 | | | | | v | v | | _ | | - | | | -+ | | | | |
| | FAA-4-067 7#1 | | WI | Grab | | | 6/19/24 | 1120 | 2 | | · • | Х | X | | | | | | | | | | | |
| | FAA-5-061924 | | WT | Grab | | | 1/19/24 | 1210 | 2 | - | | X | X | | | | | | | | | | | |
| | 1024 | | | | | | 611111 | 1210 | - | | - | | | | | - | + | - | | \rightarrow | | _ | | \vdash |
| | FAA-6-06 7 7 24 | | WT | Grab | | | 6/19/24 | 935 | 2 | | | X | X | | | | | | | | | | | |
| | JEC-FAA-DUP-06)42 | 4 | WT | Grah | 4 | | (10/2) | 02T | 2 | | | Y | v | | | | | | | | | | | |
| | | | | Giab | - | 1.087 | 6/19/29 | 935 | Ľ | | • | ^ | ^ | 12 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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| Additional Instruction | ons from Pace®: | | | | | Collected By (Printed Nar | : M | att Van | derl | Putte | n | Custo | mer Rer | narks / | Special Co | onditions , | Possib | le Hazaro | 15: | | | | | |
| | | | | | | Signature | | | _ | | | # Co | olers: | _ | Thermome | ter ID: | Corr | ection Fac | tor (*C): | Obs. T | emp. (*C) | Corrected Temp | 20 C | On Ice: |
| | | | | | | bignature. | Mati | Vand | ert | utte | n | | | | | | | | 2.000 C | | - Protocola | 11. 8 | | |
| Relinquished by/Compa | ny: (Signature) | | | Date/Time: | 06/19/24 | -10 | Received by/Company | γ: (Signature) | - | | 1 | - | | | Date | N | 16 | nr | | Tracking f | Number: | 1.2 | | |
| Ma | att VanderPutten | / SCS | | | 86/20/2 4/10 | 5:00 | | 1 | 1 | 2 | | 2 | | | 011 | 9 | 100 | 10 | | L | | | | |
| Relinguished by/Compa | iny: (Signature) | | | Date/Time: | | | Received by/Company | y: (Secharce) | | | | | | | Date/Time | | | | | Delivere | :d by: [] In- | Person []C | ourier | |
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| Repquished by/Company: (Signature) Date/Tim | | | | Date/Time: | | Received by/Company: (Signature) | | | | | Date/Time: Damo: 1 of 1 | | | | | | | | | | | | | |
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Similiting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Evergy Kansas Central, Inc.

Profile/EZ # 3118435

Notes

Site: JEC FAL CCR RADCHEM

| T | 1 | | | T | | | <u> </u> | 1 | 1 | r | | | | | | | | | | | | 1 | _ | | | | | | | |
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| Matrix | VG9H | DG9H | DG9Q | VG9U | DG9U | DG9M | DG9B | BG1U | AG1H | 4G1U | AG2U | 4G3S | AG4U | 1G5U | IGFU | NGKU | NGDU | 3P1U | 8P2U | spau | P1N | P3N | P3F | P3S | P3C | P3Z | /PDU | PLC | ther | PIN |
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| Codes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Gla | ass | | | | | | | | | | | Dia | etic | | | | | | | | | | |
| DG9E | 3 | 40mL | bisulfa | ate clea | ar vial | | | WGK | U | 8oz cl | ear soi | l jar | | | | BP1C | | 1L NA | OH pla | astic | - | | | T | | Winel | Mi | SC. | _ | |
| DCON | 1 | 40mL | HUI ar | mber v | oa vial | _ | | WGF | J | 4oz cl | ear soi | ljar | | | | BP1N | | 1L HN | O3 pla | astic | | | | SP5T | | 120m | Colife | orm Na | a Thios | ulfate |

| IDG9B | A0ml hisulfate clear vial | MACCINEL | 10 and | | ridotic | | NIISC. |
|-------|---|----------|--|-------|-------------------------------------|------|-------------------------------|
| DG9H | 40ml HClamber voa vial | WGRU | 80Z clear soil jar | BP1C | 1L NAOH plastic | 1 | Wipe/Swab |
| COM | | WGFU | 40Z clear soil jar | BP1N | 1L HNO3 plastic | SP5T | 120mL Coliform Na Thiosulfate |
| | | WG2U | 2oz clear soil jar | BP1S | 1L H2SO4 plastic | ZPLC | Ziploc Bag |
| JG9Q | 40mL TSP amber vial | JGFU | 4oz unpreserved amber wide | BP1U | 1L unpreserved plastic | AF | Air Filter |
| JG9S | 40mL H2SO4 amber vial | AGOU | 100mL unores amber glass | BP17 | 11 NaOH Zn Acetate | 1C | Air Cossettes |
| DG9T | 40mL Na Thio amber vial | AG1H | 1L HCl amber glass | BP2C | 500ml NAOH plastic | | Air Gassettes |
| DG9U | 40mL amber unpreserved | AG1S | 11 H2SO4 amber glass | BD2N | 500mL UNO2 plastic | R | Terracore Kit |
| /G9H | 40mL HCl clear vial | AG1T | 11 Na Thiosulfate closs/omber close | DDDD | | U | Summa Can |
| /G9T | 40ml Na Thio clear vial | | 11the second clear/amber glass | BP25 | 500mL H2SO4 plastic | | |
| /GQLI | | AGIU | Tilter unpres amber glass | BP2U | 500mL unpreserved plastic | | |
| 030 | 40mL unpreserved clear vial | AG2N | 500mL HNO3 amber glass | BP2Z | 500mL NaOH, Zn Acetate | 1 | |
| GIS | 1liter H2SO4 clear glass | AG2S | 500mL H2SO4 amber glass | BP3C | 250ml NaOH plastic | - | Matrix |
| 5610 | 1liter unpres glass | AG3S | 250mL H2SO4 amber glass | BP3F | 250mL HNO3 plastic - field filtered | W/T | Water |
| IG3H | 250mL HCL Clear glass | AG2U | 500mL unpres amber glass | BP3N | 250mL HNO3 plastic | | Callel |
| IG3U | 250mL Unpres Clear glass | AG3U | 250mL unpres amber glass | BP311 | 250ml upprocented election | JSL | Solid |
| VGDU | 16oz clear soil jar | AG4U | 125ml unores amber glass | BD20 | 250mL unpreserved plastic | NAL | Non-aqueous Liquid |
| | | ACELL | | DF35 | 250mL H2SO4 plastic | OL | OIL |
| | which is not a set of the set of | 14920 | TroomL unpres amber glass | BP3Z | 250mL NaOH, Zn Acetate | WP | Wipe |
| | | | | BP4U | 125mL unpreserved plastic | DW | Drinking Water |
| | | | | | | | Briting Water |

BP4N

BP4S

WPDU

125mL HNO3 plastic

125mL H2SO4 plastic

16oz unpresserved plstic

Work Order Number:

XX455263

Quality Control Sample Performance Assessment

| Pace Analytical" | Pa 226 | | Analyst Must Manually Enter All Fields Highlighted in | Yellow. | |
|---|---------------|-----------------|---|----------|------------|
| rest. | DMC | | Consult Matrix Calks Control Accessment | MC/MCD 4 | Me/Mep a |
| Analyst. | 6/27/2024 | | Sample Matrix Spike Control Assessment | | NIS/NISU 2 |
| | 0/21/2024 | | Sample Collection Date. | | |
| Batch ID: | 79985 | | Sample I.D. | | |
| Mauix. | Dvv | | Sample MS I.D. | | |
| Mathed Direct Assessment | | 1 | Sample WSD 1.D. | | |
| Method Blank Assessment | 2202050 | | Spike I.D. | | |
| MB sample ID | 3303056 | | Spike Volume Lload in MS (ml.): | | |
| MB concentration. | -0.039 | | Spike Volume Used in MSD (mL). | | |
| MB MDC: | 0.175 | | MS Aliquot (L. q. F): | | |
| MB Numerical Performance Indicator: | -0.45 | | MS Target Conc (pCi/L, g, F): | | |
| MB Status vs Numerical Indicator | N/A | | MSD Aliquot (L. q. F): | | , jj |
| MB Status vs. MDC: | Pass | | MSD Target Conc. (pCi/L, g, F): | | |
| | 1 400 | 1 | MS Spike Uncertainty (calculated): | | |
| Laboratory Control Sample Assessment | CSD (Y or N)? | Y | MSD Spike Uncertainty (calculated): | | |
| , | LCS79985 | LCSD79985 | Sample Result: | | |
| Count Date: | 7/11/2024 | 7/11/2024 | Sample Result Counting Uncertainty (pCi/L, g, F): | | |
| Spike I.D.: | 23-063 | 23-063 | Sample Matrix Spike Result: | | |
| Spike Concentration (pCi/mL): | 32.298 | 32.298 | Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | | |
| Volume Used (mL): | 0.10 | 0.10 | Sample Matrix Spike Duplicate Result: | | |
| Aliquot Volume (L, g, F): | 0.655 | 0.654 | Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | | |
| Target Conc. (pCi/L, g, F): | 4.935 | 4.939 | MS Numerical Performance Indicator: | | |
| Uncertainty (Calculated): | 0.232 | 0.232 | MSD Numerical Performance Indicator: | | |
| Result (pCi/L, g, F): | 5.412 | 4.745 | MS Percent Recovery: | | |
| LCS/LCSD Counting Uncertainty (pCi/L, g, F): | 1.053 | 0.958 | MSD Percent Recovery: | | |
| Numerical Performance Indicator: | 0.87 | -0.39 | MS Status vs Numerical Indicator: | | |
| Percent Recovery: | 109.67% | 96.05% | MSD Status vs Numerical Indicator: | | |
| Status vs Numerical Indicator: | N/A | N/A | MS Status vs Recovery: | | |
| Status vs Recovery: | Pass | Pass | MSD Status vs Recovery: | | |
| Upper % Recovery Limits: | 133% | 133% | MS/MSD Upper % Recovery Limits: | | |
| Lower % Recovery Limits: | /3% | 13% | MS/MSD Lower % Recovery Limits. | | |
| Dunlicate Sample Assessment | | | Matrix Snike/Matrix Snike Dunlicate Sample Assessment | | |
| Duplicate dample Assessment | | | many opine many opine baphoate outline Accounting | | |
| Sample I.D.: | LCS79985 | Enter Duplicate | Sample I.D. | | |
| Duplicate Sample I.D. | LCSD79985 | sample IDs if | Sample MS I.D. | | |
| Sample Result (pCi/L, g, F): | 5.412 | other than | Sample MSD I.D. | | |
| Sample Result Counting Uncertainty (pCi/L, g, F): | 1.053 | LCS/LCSD in the | Sample Matrix Spike Result: | | |
| Sample Duplicate Result (pCi/L, g, F): | 4.745 | space below. | Matrix Spike Result Counting Uncertainty (pCi/L, g, F): | | |
| Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): | 0.958 | | Sample Matrix Spike Duplicate Result: | | |
| Are sample and/or duplicate results below RL? | NO | | Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): | | |
| Duplicate Numerical Performance Indicator: | 0.919 | | Duplicate Numerical Performance Indicator: | | |
| (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: | 13.24% | | (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: | | |
| Duplicate Status vs Numerical Indicator: | N/A | | MS/ MSD Duplicate Status vs Numerical Indicator: | (| |
| Duplicate Status vs RPD: | Pass | | MS/ MSD Duplicate Status vs RPD: | | |
| % RPD Limit: | 32% | 1 | % RPD Limit: | | |

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

Comments:

17/11/24

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PACE Analytical Services Ra-228 Analysis

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

| Test: | Ra-228 | | | | |
|--|---------------------|------------------|--|----------|----------------|
| Analyst: | VAL | | Sample Matrix Spike Control Assessment | MS/MSD 1 | MS/MSD 2 |
| Date: | 7/4/2024 | | Sample Collection Date: | | |
| Worklist | 70086 | | Sample I D | | |
| Matrix | WT | | Sample I.D. Sample MS I D | | i |
| | | | Sample MSD LD | | ŧ. |
| Method Blank Assessment | | 1 | Snike I D : | | |
| MB Sample ID | 3303059 | | MS/MSD Decay Corrected Spike Concentration (pCi/mL): | | |
| MB concentration: | 0 312 | | Spike Volume Llend in MS (ml.) | | programmer and |
| M/B 2 Sigma CSU: | 0.312 | | Spike Volume Used in MSD (mL): | | |
| M/B 2 Olgina COO. MB MDC: | 0.871 | | MS Aliquot (i. q. F): | | |
| MB Numerical Performance indicator: | 1 49 | | MS Target Conc (nCi/L, g, F): | | |
| MB Status vs Numerical Indicator: | Dace | | MSD Aliquet (L. g. F): | | |
| MB Status vs MDC: | Pass | | MSD Target Conc. (pCi/L. g. F): | | |
| | 1 400 | 1 | MS Snike Uncertainty (calculated): | | |
| Laboratory Control Sample Assessment | LCSD (Y or N)? | I Y I | MSD Spike Uncertainty (calculated): | | |
| | 10579986 | LCSD79986 | Samle Result | | |
| Count Date: | 7/11/2024 | 7/11/2024 | Sample Result 2 Sigma CSU (nCi/L g E): | | |
| Spike I D. | 23-043 | 23-043 | Sample Matrix Spike Result | | |
| Decay Corrected Spike Concentration (pCi/mL): | 36.060 | 36,060 | Matrix Spike Result 2 Sigma CSU (nCi/L, g, F): | | |
| Volume Used (mL): | 0.10 | 0.10 | Sample Matrix Spike Duplicate Result | | |
| Aliquot Volume (L. q. F): | 0.818 | 0.820 | Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L o E): | | |
| Target Conc. (pCi/L, g, F); | 4,406 | 4,400 | MS Numerical Performance Indicator: | | |
| Uncertainty (Calculated): | 0.216 | 0.216 | MSD Numerical Performance Indicator: | | |
| Result (pCi/L, g, F): | 3.733 | 3.171 | MS Percent Recovery: | | |
| LCS/LCSD 2 Sigma CSU (pCi/L, g, F): | 0.918 | 0.828 | MSD Percent Recovery: | | |
| Numerical Performance Indicator: | -1.40 | -2.81 | MS Status vs Numerical Indicator: | | 1 |
| Percent Recovery: | 84.72% | 72.07% | MSD Status vs Numerical Indicator: | | 1 |
| Status vs Numerical Indicator: | N/A | N/A | MS Status vs Recovery: | | |
| Status vs Recovery: | Pass | Pass | MSD Status vs Recovery: | | |
| Upper % Recovery Limits: | 135% | 135% | MS/MSD Upper % Recovery Limits: | | |
| Lower % Recovery Limits: | 60% | 60% | MS/MSD Lower % Recovery Limits: | | |
| and a second | | | | | |
| Duplicate Sample Assessment | | | Matrix Spike/Matrix Spike Duplicate Sample Assessment | | |
| | 1.0070000 | | | | |
| Sample I.D.: | LCS79986 | Enter Duplicate | Sample I.D. | | |
| Dupicate Sample I.D. | LCSD/9986 | sample IDs if | Sample MS I.D. | | |
| Sample Result (pCi/L, g, F): | 3.733 | other than | Sample MSD I.D. | | |
| Sample Result 2 Sigma CSU (pCi/L, g, F): | 0.918 | LUS/LUSD IN | Sample Matrix Spike Result: | | |
| Sample Duplicate Result (pCi/L, g, F): | 3.171 | the space below. | Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): | | |
| Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): | 0.828 | I I | Sample Matrix Spike Duplicate Result: | | |
| Are sample ano/or ouplicate results below RL? | 0.801 | | Matrix Spike Duplicate Result 2 Sigma CSU (pCl/L, g, F): | | |
| Duplicate Numerical Performance Indicator: | 16 149/ | | Duplicate Numerical Performance Indicator: | | |
| (based on the LUS/LUSD Percent Recoveries) Duplicate RPD: | 10.14% | | (based on the Percent Recoveries) MS/ MSD Duplicate RPD: | | |
| Duplicate Status vs Numerical Indicator | Pass | | MS/ MSD Duplicate Status vs Numerical Indicator: | | |
| | Pass 36% | | Mio/ Mio/ Duplicate Status vs RPU: | | |
| Duplicate Status vs Numerical Indicator Duplicate Status vs RPD: % RPD Limit | Pass Pass 36% | - | 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:

MRH 7-12-24

Pace Analytical"

Ra-228 NELAC DW2 Printed: 7/12/2024 8:51 AM ATTACHMENT 2-3 September 2024 Semiannual Sampling Event Laboratory Analytical Report



September 20, 2024

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

RE: Project: JEC FAL CCR Pace Project No.: 60459912

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Kansas City

• Pace Analytical Services - Salina

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

Sincerely,

alice Spiller

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

Enclosures

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





CERTIFICATIONS

Project: JEC FAL CCR Pace Project No.: 60459912

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

Pace Analytical Services Salina

528 N 9th Street, Salina, KS 67401 Kansas/NELAP Certification: # E-10146 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

Oklahoma Certification: 2023-074 Texas Certification: T104704246-23-15



SAMPLE SUMMARY

Project: JEC FAL CCR Pace Project No.: 60459912

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------|--------|----------------|----------------|
| 60459912001 | FAA-3-090424 | Water | 09/04/24 14:40 | 09/05/24 12:50 |
| 60459912002 | FAA-4-090424 | Water | 09/04/24 15:10 | 09/05/24 12:50 |
| 60459912003 | FAA-6-090424 | Water | 09/04/24 15:45 | 09/05/24 12:50 |
| 60459912004 | JEC-FAA-DUP-090424 | Water | 09/04/24 15:45 | 09/05/24 12:50 |



SAMPLE ANALYTE COUNT

Project: JEC FAL CCR Pace Project No.: 60459912

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------------|-------------|----------|----------------------|------------|
| 60459912001 | FAA-3-090424 | EPA 200.7 | ARMN | 3 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | MLL | 3 | PASI-SA |
| | | SM 2540C | TML | 1 | PASI-K |
| | | SM 4500-H+B | TML | 1 | PASI-K |
| 60459912002 | FAA-4-090424 | EPA 200.7 | ARMN | 3 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | MLL | 3 | PASI-SA |
| | | SM 2540C | TML | 1 | PASI-K |
| | | SM 4500-H+B | TML | 1 | PASI-K |
| 60459912003 | FAA-6-090424 | EPA 200.7 | ARMN | 3 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | MLL | 3 | PASI-SA |
| | | SM 2540C | TML | 1 | PASI-K |
| | | SM 4500-H+B | TML | 1 | PASI-K |
| 60459912004 | JEC-FAA-DUP-090424 | EPA 200.7 | ARMN | 3 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JGP | 3 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | MLL | 3 | PASI-SA |
| | | SM 2540C | TML | 1 | PASI-K |
| | | SM 4500-H+B | TML | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City PASI-SA = Pace Analytical Services - Salina



Project: JEC FAL CCR Pace Project No.: 60459912

Method: EPA 200.7

Description:200.7 Metals, TotalClient:Evergy_Haley & AldrichDate:September 20, 2024

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.

Additional Comments:



Project: JEC FAL CCR

Pace Project No.: 60459912

Method: EPA 6010

Description:6010 MET ICPClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: JEC FAL CCR Pace Project No.: 60459912

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: JEC FAL CCR Pace Project No.: 60459912

Method: EPA 245.1

Description:245.1 MercuryClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: JEC FAL CCR Pace Project No.: 60459912

Method:EPA 300.0Description:300.0 IC Anions 28 DaysClient:Evergy_Haley & AldrichDate:September 20, 2024

General Information:

4 samples were analyzed for EPA 300.0 by Pace Analytical Services Salina. 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.

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.

Surrogates:

All surrogates 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:



Project: JEC FAL CCR Pace Project No.: 60459912

Method: SM 2540C

Description:2540C Total Dissolved SolidsClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: JEC FAL CCR Pace Project No.: 60459912

Method: SM 4500-H+B

Description:4500H+ pH, ElectrometricClient:Evergy_Haley & AldrichDate:September 20, 2024

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-3-090424 (Lab ID: 60459912001)
- FAA-4-090424 (Lab ID: 60459912002)
- FAA-6-090424 (Lab ID: 60459912003)
- JEC-FAA-DUP-090424 (Lab ID: 60459912004)

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.



Project: JEC FAL CCR

| Pace Project No.: | 60459912 |
|-------------------|----------|
|-------------------|----------|

| Sample: FAA-3-090424 | Lab ID: 604 | 159912001 | Collected: 09/04/2 | 4 14:40 | 0 Received: 09 |)/05/24 12:50 N | latrix: Water | |
|-------------------------------|--------------------------------|-------------------------------|-------------------------------------|---------|----------------|-----------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.7 Metals, Total | Analytical Me | thod: EPA 20 | 00.7 Preparation Met | hod: EF | PA 200.7 | | | |
| Barium, Total Recoverable | 0.028 | ma/L | 0.0050 | 1 | 09/06/24 14:17 | 09/11/24 12:03 | 7440-39-3 | |
| Boron, Total Recoverable | 0.52 | mg/L | 0.10 | 1 | 09/06/24 14:17 | 09/11/24 12:03 | 7440-42-8 | |
| Calcium, Total Recoverable | 320 | mg/L | 0.20 | 1 | 09/06/24 14:17 | 09/11/24 12:03 | 7440-70-2 | |
| 6010 MET ICP | Analytical Me Pace Analytic | thod: EPA 60 al Services · | 010 Preparation Meth Kansas City | nod: EP | PA 3010 | | | |
| Lithium, Total Recoverable | 0.015 | mg/L | 0.010 | 1 | 09/06/24 09:58 | 09/10/24 11:49 | 7439-93-2 | |
| 200.8 MET ICPMS | Analytical Me Pace Analytic | thod: EPA 20 al Services · | 00.8 Preparation Met Kansas City | hod: EF | PA 200.8 | | | |
| Arsenic, Total Recoverable | 0.0011 | mg/L | 0.0010 | 1 | 09/13/24 10:04 | 09/17/24 15:29 | 7440-38-2 | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 09/13/24 10:04 | 09/17/24 15:29 | 7440-48-4 | |
| Molybdenum, Total Recoverable | 0.0042 | mg/L | 0.0010 | 1 | 09/13/24 10:04 | 09/17/24 15:29 | 7439-98-7 | |
| 245.1 Mercury | Analytical Me Pace Analytic | thod: EPA 24 al Services - | 45.1 Preparation Met Kansas City | hod: EF | PA 245.1 | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 09/06/24 09:55 | 09/06/24 14:53 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Me Pace Analytic | thod: EPA 30 al Services · | 00.0 - Salina | | | | | |
| Chloride | 175 | mg/L | 20.0 | 20 | | 09/11/24 18:05 | 16887-00-6 | |
| Fluoride | 0.30 | mg/L | 0.10 | 1 | | 09/11/24 08:40 | 16984-48-8 | |
| Sulfate | 880 | mg/L | 100 | 100 | | 09/11/24 18:49 | 14808-79-8 | |
| 2540C Total Dissolved Solids | Analytical Me Pace Analytic | thod: SM 25 al Services · | 40C - Kansas City | | | | | |
| Total Dissolved Solids | 1640 | mg/L | 66.7 | 1 | | 09/06/24 10:15 | | |
| 4500H+ pH, Electrometric | Analytical Me Pace Analytic | thod: SM 45 al Services · | 00-H+B - Kansas City | | | | | |
| pH at 25 Degrees C | 7.1 | Std. Units | s 0.10 | 1 | | 09/10/24 17:36 | | H6 |



Project: JEC FAL CCR

| Pace Project No.: | 60459912 |
|-------------------|----------|
|-------------------|----------|

| Sample: FAA-4-090424 | Lab ID: 604 | 159912002 | Collected: 09/04/2 | 4 15:10 | Received: 09 |)/05/24 12:50 N | Aatrix: Water | |
|--|---------------------------------|-------------------------------|-------------------------------------|---------------|--|--|--|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.7 Metals, Total | Analytical Met Pace Analytic | thod: EPA 20 al Services - | 00.7 Preparation Met Kansas City | hod: EF | PA 200.7 | | | |
| Barium, Total Recoverable Boron, Total Recoverable Calcium, Total Recoverable | 0.049 0.51 189 | mg/L mg/L mg/L | 0.0050 0.10 0.20 | 1 1 1 | 09/06/24 14:17 09/06/24 14:17 09/06/24 14:17 | 09/11/24 12:05 09/11/24 12:05 09/11/24 12:05 | 7440-39-3 7440-42-8 7440-70-2 | |
| 6010 MET ICP | Analytical Met Pace Analytic | thod: EPA 60 al Services - | 010 Preparation Meth Kansas City | nod: EP | A 3010 | | | |
| Lithium, Total Recoverable | 0.023 | mg/L | 0.010 | 1 | 09/12/24 12:00 | 09/18/24 13:07 | 7439-93-2 | |
| 200.8 MET ICPMS | Analytical Met Pace Analytic | thod: EPA 20 al Services - | 00.8 Preparation Met Kansas City | hod: EF | PA 200.8 | | | |
| Arsenic, Total Recoverable Cobalt, Total Recoverable Molybdenum, Total Recoverable | <0.0010 <0.0010 0.0060 | mg/L mg/L mg/L | 0.0010 0.0010 0.0010 | 1 1 1 | 09/13/24 10:04 09/13/24 10:04 09/13/24 10:04 | 09/17/24 15:45 09/17/24 15:45 09/17/24 15:45 | 7440-38-2 7440-48-4 7439-98-7 | |
| 245.1 Mercury | Analytical Met Pace Analytic | thod: EPA 24 al Services - | 45.1 Preparation Met Kansas City | hod: EF | PA 245.1 | | | |
| Mercury | 1.5 | ug/L | 0.20 | 1 | 09/06/24 09:55 | 09/06/24 15:00 | 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Met Pace Analytic | thod: EPA 30 al Services - | 00.0 · Salina | | | | | |
| Chloride Fluoride Sulfate | 126 0.26 460 | mg/L mg/L mg/L | 10.0 0.10 50.0 | 10 1 50 | | 09/11/24 19:33 09/11/24 09:24 09/11/24 20:17 | 16887-00-6 16984-48-8 14808-79-8 | |
| 2540C Total Dissolved Solids | Analytical Met Pace Analytic | thod: SM 25 al Services - | 40C Kansas City | | | | | |
| Total Dissolved Solids | 1200 | mg/L | 20.0 | 1 | | 09/06/24 10:15 | | |
| 4500H+ pH, Electrometric | Analytical Met Pace Analytic | thod: SM 45 al Services - | 00-H+B · Kansas City | | | | | |
| pH at 25 Degrees C | 7.2 | Std. Units | s 0.10 | 1 | | 09/10/24 17:37 | | H6 |



Project: JEC FAL CCR

| Pace Project No.: | 60459912 |
|-------------------|----------|
|-------------------|----------|

| Sample: FAA-6-090424 | Lab ID: 604 | Lab ID: 60459912003 | | 4 15:45 | 5 Received: 09 | /05/24 12:50 N | Matrix: Water | | |
|--|--------------------------------|-------------------------------|-------------------------------------|---------------|--|--|--|------|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | |
| 200.7 Metals, Total | Analytical Me Pace Analytic | thod: EPA 20 al Services - | 00.7 Preparation Met Kansas City | hod: EF | PA 200.7 | | | | |
| Barium, Total Recoverable Boron, Total Recoverable Calcium, Total Recoverable | 0.021 3.8 94.5 | mg/L mg/L mg/L | 0.0050 0.10 0.20 | 1 1 1 | 09/06/24 14:17 09/06/24 14:17 09/06/24 14:17 | 09/11/24 12:08 09/11/24 12:08 09/11/24 12:08 | 7440-39-3 7440-42-8 7440-70-2 | | |
| 6010 MET ICP | Analytical Me Pace Analytic | thod: EPA 60 al Services - | 010 Preparation Meth Kansas City | nod: EP | PA 3010 | | | | |
| Lithium, Total Recoverable | <0.010 | mg/L | 0.010 | 1 | 09/06/24 09:58 | 09/10/24 11:51 | 7439-93-2 | | |
| 200.8 MET ICPMS | Analytical Me Pace Analytic | thod: EPA 20 al Services - | 00.8 Preparation Met Kansas City | hod: EF | PA 200.8 | | | | |
| Arsenic, Total Recoverable Cobalt, Total Recoverable Molybdenum, Total Recoverable | 0.011 <0.0010 0.60 | mg/L mg/L mg/L | 0.0010 0.0010 0.0010 | 1 1 1 | 09/13/24 10:04 09/13/24 10:04 09/13/24 10:04 | 09/17/24 15:49 09/17/24 15:49 09/17/24 15:49 | 7440-38-2 7440-48-4 7439-98-7 | | |
| 245.1 Mercury | Analytical Me Pace Analytic | thod: EPA 24 al Services - | 45.1 Preparation Met Kansas City | hod: EF | PA 245.1 | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 09/06/24 09:55 | 09/06/24 15:07 | 7439-97-6 | | |
| 300.0 IC Anions 28 Days | Analytical Me Pace Analytic | thod: EPA 30 al Services - | 00.0 · Salina | | | | | | |
| Chloride Fluoride Sulfate | 61.5 1.0 1520 | mg/L mg/L mg/L | 5.0 0.10 200 | 5 1 200 | | 09/11/24 20:32 09/11/24 09:39 09/11/24 20:46 | 16887-00-6 16984-48-8 14808-79-8 | | |
| 2540C Total Dissolved Solids | Analytical Me Pace Analytic | thod: SM 25 al Services - | 40C Kansas City | | | | | | |
| Total Dissolved Solids | 2450 | mg/L | 100 | 1 | | 09/06/24 10:16 | | | |
| 4500H+ pH, Electrometric | Analytical Me Pace Analytic | thod: SM 45 al Services - | 00-H+B · Kansas City | | | | | | |
| pH at 25 Degrees C | 8.5 | Std. Units | s 0.10 | 1 | | 09/10/24 17:42 | | H6 | |



Project: JEC FAL CCR

Pace Project No.: 60459912

| Sample: JEC-FAA-DUP-090424 | Lab ID: 60459912004 | | Collected: 09/04/2 | 24 15:4 | 5 Received: 09 | 0/05/24 12:50 N | Matrix: Water | | | | | |
|-------------------------------|--|---------------|----------------------|---------|----------------|-----------------|---------------|------|--|--|--|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | | | | |
| 200.7 Metals, Total | Analytical Met | thod: EPA 20 | 0.7 Preparation Met | hod: El | PA 200.7 | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Barium, Total Recoverable | 0.022 | mg/L | 0.0050 | 1 | 09/06/24 14:17 | 09/11/24 12:10 | 7440-39-3 | | | | | |
| Boron, Total Recoverable | 4.0 | mg/L | 0.10 | 1 | 09/06/24 14:17 | 09/11/24 12:10 | 7440-42-8 | | | | | |
| Calcium, Total Recoverable | 97.8 | mg/L | 0.20 | 1 | 09/06/24 14:17 | 09/11/24 12:10 | 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 | 09/06/24 09:58 | 09/10/24 11:53 | 7439-93-2 | | | | | |
| 200.8 MET ICPMS | Analytical Met | thod: EPA 20 | 0.8 Preparation Met | hod: El | PA 200.8 | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Arsenic, Total Recoverable | 0.011 | mg/L | 0.0010 | 1 | 09/13/24 10:04 | 09/17/24 15:53 | 7440-38-2 | | | | | |
| Cobalt, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 09/13/24 10:04 | 09/17/24 15:53 | 7440-48-4 | | | | | |
| Molybdenum, Total Recoverable | 0.61 | mg/L | 0.0010 | 1 | 09/13/24 10:04 | 09/17/24 15:53 | 7439-98-7 | | | | | |
| 245.1 Mercury | Analytical Met | thod: EPA 24 | 15.1 Preparation Met | hod: El | PA 245.1 | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 09/06/24 09:55 | 09/06/24 15:09 | 7439-97-6 | | | | | |
| 300.0 IC Anions 28 Days | Analytical Met | thod: EPA 30 | 0.0 | | | | | | | | | |
| | Pace Analytic | al Services - | Salina | | | | | | | | | |
| Chloride | 61.2 | mg/L | 5.0 | 5 | | 09/11/24 21:01 | 16887-00-6 | | | | | |
| Fluoride | 1.0 | mg/L | 0.10 | 1 | | 09/11/24 09:54 | 16984-48-8 | | | | | |
| Sulfate | 1590 | mg/L | 200 | 200 | | 09/11/24 21:15 | 14808-79-8 | | | | | |
| 2540C Total Dissolved Solids | Analytical Met | thod: SM 254 | 40C | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| Total Dissolved Solids | 2430 | mg/L | 100 | 1 | | 09/06/24 10:16 | | | | | | |
| 4500H+ pH, Electrometric | Analytical Method: SM 4500-H+B | | | | | | | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | | | | | |
| pH at 25 Degrees C | 8.2 | Std. Units | s 0.10 | 1 | | 09/13/24 10:55 | | H6 | | | | |



| Project: | JEC FAL CCR | | | | | | | | | | |
|-------------------|----------------|-------------------|-----------------|-------------|-----------------|----------------|------------|------------|--|--|--|
| Pace Project No.: | 60459912 | | | | | | | | | | |
| QC Batch: | 907629 | | Analysis M | ethod: | EPA 245.1 | | | | | | |
| QC Batch Method: | EPA 245.1 | | Analysis De | escription: | 245.1 Mercury | | | | | | |
| | | | Laboratory | : | Pace Analytical | Services - Kar | nsas City | | | | |
| Associated Lab Sa | mples: 6045991 | 12001, 6045991200 | 2, 60459912003, | 60459912004 | | | | | | | |
| METHOD BLANK: | 3592233 | | Matrix | k: Water | | | | | | | |
| Associated Lab Sa | mples: 6045991 | 12001, 6045991200 | 2, 60459912003, | 60459912004 | | | | | | | |
| | | | Blank | Reporting | | | | | | | |
| Para | meter | Units | Result | Limit | Analyzed | l Quali | fiers | | | | |
| Mercury ug/L | | ug/L | <0.20 | 0. | 20 09/06/24 14 | :16 | | | | | |
| | | 3502234 | | | | | | | | | |
| LABORATORT CC | | 5592254 | Spike | LCS | LCS | % Rec | | | | | |
| Para | meter | Units | Conc. | Result | % Rec | Limits | Qualifiers | | | | |
| Mercury | | ug/L | 5 | 4.7 | 95 | 85-115 | | | | | |
| MATRIX SPIKE SA | MPLE: | 3592235 | | | | | | | | | |
| | | | 6045980200 | 1 Spike | MS | MS | % Rec | | | | |
| Para | meter | Units | Result | Conc. | Result | % Rec | Limits | Qualifiers | | | |
| Mercury | | ug/L | | ND | 5 4.9 | 9 | 98 70-130 | | | | |
| MATRIX SPIKE SA | MPI F: | 3592236 | | | | | | | | | |
| | | 0002200 | 6045991200 | 1 Spike | MS | MS | % Rec | | | | |
| Para | meter | Units | Result | Conc. | Result | % Rec | Limits | Qualifiers | | | |
| Mercury | | ug/L | <(|).20 5 | 6 4.2 | 8 | 34 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.



| Project: | JEC FAL CCR | 1 | | | | | | | | | | | |
|--------------------|--------------|--------|--------------|------------|--------------|-----------|------------|--------------|-------------|------------|------|--------|-------|
| Pace Project No.: | 60459912 | | | | | | | | | | | | |
| QC Batch: | 907701 | | | Analy | sis Methor | d: E | EPA 200.7 | | | | | | |
| QC Batch Method: | EPA 200.7 | | | Analy | /sis Descrip | otion: 2 | 200.7 Meta | ls, Total | | | | | |
| | | | | Labo | ratory: | F | Pace Analy | tical Servic | es - Kansas | s Citv | | | |
| Associated Lab Sar | mples: 60459 | 912001 | , 6045991200 | 2, 6045991 | 2003, 604 | 59912004 | , | | | | | | |
| METHOD BLANK: | 3592646 | | | | Matrix: Wa | ater | | | | | | | |
| Associated Lab Sar | mples: 60459 | 912001 | , 6045991200 | 2, 6045991 | 2003, 604 | 59912004 | | | | | | | |
| | | | | Blar | nk I | Reporting | | | | | | | |
| Parar | neter | | Units | Res | ult | Limit | Anal | yzed | Qualifiers | S | | | |
| Barium | | | mg/L | < | 0.0050 | 0.0050 | 0 09/11/2 | 4 11:41 | | | | | |
| Boron | | | mg/L | | <0.10 | 0.10 | 0 09/11/2 | 4 11:41 | | | | | |
| Calcium | | | mg/L | | <0.20 | 0.20 | 0 09/11/2 | 4 11:41 | | | | | |
| LABORATORY CO | NTROL SAMPL | E: 35 | 92647 | | | | | | | | | | |
| | | | | Spike | LC | S | LCS | % R | ec | | | | |
| Parar | neter | | Units | Conc. | Res | ult | % Rec | Lim | its (| Qualifiers | | | |
| Barium | | | mg/L | | 1 | 1.0 | 10 | 1 | 85-115 | | _ | | |
| Boron | | | mg/L | | 1 | 0.94 | 9 | 4 | 85-115 | | | | |
| Calcium | | | mg/L | 1 | 0 | 10.8 | 10 | 8 | 85-115 | | | | |
| | | | ATE: 3502 | 5/18 | | 3502640 | | | | | | | |
| | | | AIL. 5552 | MS | MSD | 5552045 | | | | | | | |
| | | 60 | 0460004001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r l | Jnits | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Barium | | na/l | 8.8 ua/l | | 1 | 0.96 | 0.95 | 95 | 94 | 70-130 | 2 | 20 | |
| Boron | r | na/L | 448 ua/L | 1 | 1 | 1.4 | 1.4 | 94 | 93 | 70-130 | 1 | 20 | |
| Calcium | r | ng/L | 12700 | 10 | 10 | 22.8 | 22.8 | 101 | 102 | 70-130 | 0 | 20 | |
| | | | ug/L | | | | | | | | | | |
| MATRIX SPIKE SA | MPLE: | 35 | 92650 | | | | | | | | | | |
| | | | | 60459 | 912002 | Spike | MS | | MS | % Rec | ; | | |
| Parar | neter | | Units | Re | sult | Conc. | Result | 9 | 6 Rec | Limits | | Qualif | fiers |
| Barium | | | ma/L | | 0.049 | 1 | | 1.0 | 96 | 70 | -130 | | |
| Boron | | | mg/L | | 0.51 | 1 | | 1.5 | 95 | 70 | -130 | | |
| Calcium | | | mg/L | | 189 | 10 | | 199 | 106 | 70 | -130 | | |
| | | | 5 | | | - | | | - | - | | | |

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.



| Project: | JEC FAL CCR | | | | | | | | | | | |
|--------------------|------------------|-----------------|------------|------------|------------|-------------|-------------|------------|------------|-----|-----|------|
| Pace Project No.: | 60459912 | | | | | | | | | | | |
| QC Batch: | 907859 | | Analy | sis Metho | od: E | EPA 200.8 | | | | | | |
| QC Batch Method: | EPA 200.8 | | Analy | /sis Desci | ription: 2 | 200.8 MET | | | | | | |
| | | | Labo | ratory: | · | Pace Analyt | ical Servic | es - Kansa | s City | | | |
| Associated Lab Sar | nples: 60459912 | 001, 6045991200 | 2, 6045991 | 2003, 604 | 459912004 | | | | | | | |
| METHOD BLANK: | 3593203 | | | Matrix: V | Vater | | | | | | | |
| Associated Lab Sar | nples: 60459912 | 001, 6045991200 | 2, 6045991 | 2003, 604 | 459912004 | | | | | | | |
| | | , | Blar | nk | Reporting | | | | | | | |
| Paran | neter | Units | Res | ult | Limit | Anal | /zed | Qualifier | S | | | |
| Arsenic | | ma/l | < | 0.0010 | 0.001 | 0 09/17/2 | 4 15:24 | | | | | |
| Cobalt | Cobalt mg/L | | | <0.0010 | | 0 09/17/2 | 4 15:24 | | | | | |
| Molybdenum | | mg/L | <(| 0.0010 | 0.001 | 0 09/17/2 | 4 15:24 | | | | | |
| | | 3593204 | | | | | | | | | | |
| | THOE OAM EE. | 0000204 | Snike | 1.0 | CS | LCS | % R | ec | | | | |
| Paran | neter | Units | Conc. | Re | esult | % Rec | Lim | its (| Qualifiers | | | |
| Arsenic | | mg/L | 0.0 |)4 | 0.039 | 9 | 7 | 85-115 | | _ | | |
| Cobalt | | mg/L | 0.0 |)4 | 0.039 | 98 | В | 85-115 | | | | |
| Molybdenum | | mg/L | 0.0 |)4 | 0.039 | 9 | 6 | 85-115 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUE | LICATE: 3593 | 205 | | 3593206 | | | | | | | |
| | | | MS | MSD | 0000200 | | | | | | | |
| | | 60459912001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | r Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic | mg/L | 0.0011 | 0.04 | 0.04 | 0.040 | 0.042 | 97 | 101 | 70-130 | 4 | 20 | |
| Cobalt | mg/L | <0.0010 | 0.04 | 0.04 | 0.040 | 0.043 | 99 | 104 | 70-130 | 5 | 20 | |
| Molybdenum | mg/L | 0.0042 | 0.04 | 0.04 | 0.045 | 0.047 | 103 | 107 | 70-130 | 4 | 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.



| Project: | JEC FAL CCR | | | | | | | | | | | |
|--------------------|------------------|-----------------------|-----------|--------------|--------------|---------------|--------------|--------------|------------|-----|-----|------|
| Pace Project No.: | 60459912 | | | | | | | | | | | |
| QC Batch: | 907611 | | Ana | lysis Metho | d: E | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Ana | lysis Descri | ption: 6 | 6010 MET | | | | | | |
| | | | Lab | oratory: | F | Pace Analyt | ical Service | es - Kansas | s City | | | |
| Associated Lab Sam | nples: 604599120 | 001, 6045991200 | 3, 604599 | 12004 | | | | | | | | |
| METHOD BLANK: | 3592168 | | | Matrix: W | /ater | | | | | | | |
| Associated Lab Sam | nples: 604599120 | 001, 6045991200 | 3, 604599 | 12004 | | | | | | | | |
| | | | Bla | ink | Reporting | | | | | | | |
| Param | neter | Units | Res | sult | Limit | Analy | /zed | Qualifiers | 5 | | | |
| Lithium | | mg/L | | <0.010 | 0.010 | 09/10/24 | 4 11:41 | | | | | |
| | | 3592169 | | | | | | | | | | |
| | | | Spike | LC | S | LCS | % Re | ес | | | | |
| Param | neter | Units | Conc | . Re | sult | % Rec | Limi | ts (| Qualifiers | | | |
| Lithium | | mg/L | | 1 | 1.2 | 118 | 3 | 30-120 | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE DUP | LICATE: 3592 | 170 | | 3592171 | | | | | | | |
| | | | MS | MSD | | | | | | | | |
| Paramotor | Lipite | 60459912001 Recult | Spike | Spike | MS Rocult | MSD Bosult | MS % Roc | MSD % Roc | % Rec | חסס | Max | Qual |
| | Onits | | | | | | 70 R.CC | -70 Rec | | | | Qual |
| Lithium | mg/L | 0.015 | 1 | 1 | 1.2 | 1.2 | 118 | 119 | 75-125 | 1 | 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.



| Project: | JEC FAL CCR | | | | | | | | | | | |
|--------------------|------------------|--------------|-------|-----------------------|-----------|------------------|--------------|------------|------------|-----|-----|-------------------|
| Pace Project No.: | 60459912 | | | | | | | | | | | |
| QC Batch: | 908340 | | Ana | lysis Met | thod: | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Ana | Analysis Description: | | 6010 MET | | | | | | |
| | | | Lab | oratory: | | Pace Analy | tical Servic | es - Kansa | s City | | | |
| Associated Lab Sar | nples: 604599120 | 002 | | | | | | | | | | |
| METHOD BLANK: | 3594819 | | | Matrix: | Water | | | | | | | |
| Associated Lab Sar | nples: 604599120 | 002 | | | | | | | | | | |
| | | | Bla | ank | Reporting | | | | | | | |
| Paran | neter | Units | Re | sult | Limit | AnalyzedQualifie | | | S | | | |
| Lithium | | mg/L | | <0.010 | 0.01 | 0 09/18/2 | 4 13:04 | | | | | |
| LABORATORY COI | NTROL SAMPLE: | 3594820 | | | | | | | | | | |
| | | | Spike | • | LCS | LCS | % R | ec | | | | |
| Paran | neter | Units | Conc | . F | Result | % Rec | Limi | its | Qualifiers | _ | | |
| Lithium | | mg/L | | 1 | 0.99 | 9 | 9 8 | 80-120 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUP | LICATE: 3594 | 821 | | 3594822 | 2 | | | | | | |
| | | | MS | MSD | | | | | | | | |
| D | | 60459912002 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | o <i>i</i> |
| Parameter | r Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Lithium | mg/L | 0.023 | 1 | | 1 1.0 | 1.0 | 102 | 99 | 75-125 | 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.



| Project: | | JEC F/ | AL CCR | | | | | | | | | | | |
|-----------------------|------------------|--------|------------|----------------|-------------------------|-------------|-----------|--------------------|---------------|-------------|------------|-----|-----|------|
| Pace Pro | ject No.: | 604599 | 912 | | | | | | | | | | | |
| QC Batch | QC Batch: 907950 | | | Anal | Analysis Method: | | | | | | | | | |
| QC Batch | Method: | EPA | 300.0 | | Anal | ysis Descri | ption: 3 | 800.0 IC An | ions | | | | | |
| | | | | | Labo | oratory: | F | Pace Analy | tical Service | es - Salina | | | | |
| Associate | ed Lab San | nples: | 604599120 | 01, 6045991200 |)2, 604599 <i>°</i> | 2003, 604 | 59912004 | | | | | | | |
| METHOD BLANK: 3593427 | | | | | Matrix: W | ater | | | | | | | | |
| Associate | ed Lab San | nples: | 604599120 | 01, 6045991200 |)2, 604599 ² | 2003, 604 | 59912004 | | | | | | | |
| | | | | | Bla | nk | Reporting | | | | | | | |
| | Paran | neter | | Units | Units Result | | Limit | Anal | yzed | Qualifiers | | | | |
| Chloride | | | | mg/L | | <1.0 | 1.(| 1.0 09/11/24 08:11 | | | | | | |
| Fluoride | | | | mg/L | | <0.10 | 0.10 | 0 09/11/2 | 4 08:11 | | | | | |
| Sulfate | | | | mg/L | <1.0 | | 1.(| 1.0 09/11/24 08:11 | | | | | | |
| LABORA | TORY CON | NTROL | SAMPLE: | 3593428 | | | | | | | | | | |
| | | | | | Spike | LC | S | LCS | % R | ec | | | | |
| | Paran | neter | | Units | Conc. | Res | sult | % Rec | Limi | ts C | Qualifiers | | | |
| Chloride | | | | mg/L | | 5 | 4.9 | 9 | 8 9 | 90-110 | | _ | | |
| Fluoride | | | | mg/L | 2 | .5 | 2.6 | 10 | 2 9 | 90-110 | | | | |
| Sulfate | | | | mg/L | | 5 | 5.1 | 10 | 1 9 | 90-110 | | | | |
| MATRIX | SPIKE & M | IATRIX | | _ICATE: 3593 | 429 | | 3593430 | | | | | | | |
| | | | | | MS | MSD | | | | | | | | |
| | | | | 60459912001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| | Parameter | • | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | | | mg/L | 175 | 100 | 100 | 282 | 281 | 107 | 106 | 80-120 | 0 | 15 | |
| Fluoride | | | mg/L | 0.30 | 2.5 | 2.5 | 2.7 | 2.7 | 96 | 96 | 80-120 | 0 | 15 | |
| Sulfate | | | mg/L | 880 | 500 | 500 | 1360 | 1380 | 97 | 99 | 80-120 | 1 | 15 | |
| MATRIX | SPIKE & N | IATRIX | SPIKE DUPL | _ICATE: 3593 | 431 | | 3593432 | | | | | | | |
| | | | | | MS | MSD | | | | | | | | |
| | | | | 60459957004 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| | Parameter | • | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | | | mg/L | 66.0 | 50 | 50 | 119 | 120 | 106 | 108 | 80-120 | 1 | 15 | |
| Fluoride | | | mg/L | 0.33 | 2.5 | 2.5 | 2.7 | 2.7 | 95 | 95 | 80-120 | 0 | 15 | |
| Sulfate | | | mg/L | 592 | 500 | 500 | 1110 | 1100 | 104 | 102 | 80-120 | 1 | 15 | |

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

REPORT OF LABORATORY ANALYSIS

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| Project: | JEC FAL CCR | | | | | | | | | |
|------------------------|-----------------|------------------|-----------------|-----------------------|--------|--------------|----------------|--------|------------|--|
| Pace Project No.: | 60459912 | | | | | | | | | |
| QC Batch: | 907636 | | Analysis Me | ethod: | SM 2 | 540C | | | | |
| QC Batch Method: | SM 2540C | | Analysis De | Analysis Description: | | C Total Diss | olved Solids | | | |
| | | | Laboratory: | | Pace | Analytical S | Services - Kar | nsas (| City | |
| Associated Lab Sar | mples: 60459912 | 2001, 6045991200 | 2, 60459912003, | 60459912004 | | | | | | |
| METHOD BLANK: | 3592254 | | Matrix | :: Water | | | | | | |
| Associated Lab Sar | mples: 60459912 | 2001, 6045991200 | 2, 60459912003, | 60459912004 | | | | | | |
| | | | Blank | Reporting | | | | | | |
| Para | meter | Units | Result | Limit | | Analyzed | Quali | fiers | | |
| Total Dissolved Sol | ids | mg/L | | Ę | 5.0 09 | 9/06/24 10: | 14 | | _ | |
| | | | | | | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3592255 | | | | | | | | |
| | | | Spike | LCS | LC | S | % Rec | | | |
| Para | meter | Units | Conc. | Result | % R | Rec | Limits | Qu | alifiers | |
| Total Dissolved Sol | ids | mg/L | 1000 | 981 | | 98 | 80-120 | | | |
| | TE 0500050 | | | | | | | | | |
| SAMPLE DUPLICA | ATE: 3592256 | | 60450722004 | Dun | | | Мох | | | |
| Para | meter | Units | Result | Result | | RPD | RPD | | Qualifiers | |
| Total Dissolved Sol | ids | mg/L | | 8 | 88 | | 5 | 10 | | |
| | | 5 | | | | | | | | |
| SAMPLE DUPLICA | TE: 3592257 | | | | | | | | | |
| | | | 60459922004 | Dup | | | Max | | | |
| Para | meter | Units | Result | Result | | RPD | RPD | | Qualifiers | |
| Total Dissolved Solids | | ma/L | 624 | 6 | 33 | | 1 | 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.



| Project: | JEC FAL CCR | | | | | | | | | | |
|------------------------------|-----------------|-----------------|----------------|-----------------------|----------------|-----------------|------------|--|--|--|--|
| Pace Project No.: | 60459912 | | | | | | | | | | |
| QC Batch: 907980 | | | Analysis Meth | Analysis Method: | | SM 4500-H+B | | | | | |
| QC Batch Method: SM 4500-H+B | | | Analysis Desc | Analysis Description: | | 4500H+B pH | | | | | |
| | | | Laboratory: | | Pace Analytica | al Services - K | ansas City | | | | |
| Associated Lab San | nples: 60459912 | 001, 6045991200 | 2, 60459912003 | | | | | | | | |
| SAMPLE DUPLICA | TE: 3593536 | | | | | | | | | | |
| | | | 60459928003 | Dup | | Мах | C | | | | |
| Paran | neter | Units | Result | Result | RPD | RPD | Qualifiers | | | | |
| pH at 25 Degrees C | | Std. Units | 6.8 | 6 | 5.8 | 1 | 5 H6 | | | | |

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.



| Project: | JEC FAL CCR | | | | | | | | |
|------------------------------|--------------------|-------|-----------------------|--------|----------------|---------------|--------|------------|--|
| Pace Project No.: | 60459912 | | | | | | | | |
| QC Batch: | 908325 | | Analysis Meth | od: | SM 4500-H+B | | | | |
| QC Batch Method: SM 4500-H+B | | | Analysis Description: | | 4500H+B pH | | | | |
| | | | Laboratory: | | Pace Analytica | al Services - | Kansas | s City | |
| Associated Lab San | nples: 60459912004 | 1 | | | | | | | |
| SAMPLE DUPLICA | TE: 3594765 | | | | | | | | |
| | | | 60459912004 | Dup | | N | lax | | |
| Paran | neter | Units | Result | Result | RPD | R | PD | Qualifiers | |
| pH at 25 Degrees C Std. L | | | 8.2 | | 8.5 | 4 | 5 | 5 H6 | |

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.



QUALIFIERS

| Project: | JEC FAL CCR | | | | |
|-------------------|-------------|--|--|--|--|
| Pace Project No.: | 60459912 | | | | |

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

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


QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Project: | JEC FAL CCR |
|--------------------|-------------|
| Pace Project No .: | 60459912 |

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------|-----------------|----------|-------------------|---------------------|
| 60459912001 | FAA-3-090424 | EPA 200.7 | 907701 | EPA 200.7 | 907728 |
| 60459912002 | FAA-4-090424 | EPA 200.7 | 907701 | EPA 200.7 | 907728 |
| 60459912003 | FAA-6-090424 | EPA 200.7 | 907701 | EPA 200.7 | 907728 |
| 60459912004 | JEC-FAA-DUP-090424 | EPA 200.7 | 907701 | EPA 200.7 | 907728 |
| 60459912001 | FAA-3-090424 | EPA 3010 | 907611 | EPA 6010 | 907670 |
| 60459912002 | FAA-4-090424 | EPA 3010 | 908340 | EPA 6010 | 908395 |
| 60459912003 | FAA-6-090424 | EPA 3010 | 907611 | EPA 6010 | 907670 |
| 60459912004 | JEC-FAA-DUP-090424 | EPA 3010 | 907611 | EPA 6010 | 907670 |
| 60459912001 | FAA-3-090424 | EPA 200.8 | 907859 | EPA 200.8 | 908491 |
| 60459912002 | FAA-4-090424 | EPA 200.8 | 907859 | EPA 200.8 | 908491 |
| 60459912003 | FAA-6-090424 | EPA 200.8 | 907859 | EPA 200.8 | 908491 |
| 60459912004 | JEC-FAA-DUP-090424 | EPA 200.8 | 907859 | EPA 200.8 | 908491 |
| 60459912001 | FAA-3-090424 | EPA 245.1 | 907629 | EPA 245.1 | 907660 |
| 60459912002 | FAA-4-090424 | EPA 245.1 | 907629 | EPA 245.1 | 907660 |
| 60459912003 | FAA-6-090424 | EPA 245.1 | 907629 | EPA 245.1 | 907660 |
| 60459912004 | JEC-FAA-DUP-090424 | EPA 245.1 | 907629 | EPA 245.1 | 907660 |
| 60459912001 | FAA-3-090424 | EPA 300.0 | 907950 | | |
| 60459912002 | FAA-4-090424 | EPA 300.0 | 907950 | | |
| 60459912003 | FAA-6-090424 | EPA 300.0 | 907950 | | |
| 60459912004 | JEC-FAA-DUP-090424 | EPA 300.0 | 907950 | | |
| 60459912001 | FAA-3-090424 | SM 2540C | 907636 | | |
| 60459912002 | FAA-4-090424 | SM 2540C | 907636 | | |
| 60459912003 | FAA-6-090424 | SM 2540C | 907636 | | |
| 60459912004 | JEC-FAA-DUP-090424 | SM 2540C | 907636 | | |
| 60459912001 | FAA-3-090424 | SM 4500-H+B | 907980 | | |
| 60459912002 | FAA-4-090424 | SM 4500-H+B | 907980 | | |
| 60459912003 | FAA-6-090424 | SM 4500-H+B | 907980 | | |
| 60459912004 | JEC-FAA-DUP-090424 | SM 4500-H+B | 908325 | | |

| W0#:60459912 |
|---|
| Pace DC#_Title: ENV-FRM-LENE-0009_Sam |
| Revision: 2 Effective Date: 01/12/2022 Issued By: Lenexa |
| Client Name: FVPPY F |
| Courier: FedEx UAS VIA Clay PEX ECI Pace Xroads Client DOther |
| Tracking #: Pace Shipping Label Used? Yes No |
| Custody Seal on Cooler/Box Present: Yes No D Seals intact: Yes No D |
| Packing Material: Bubble Wrap Bubble Bags Foam None Other |
| Thermometer Used: Type of Ice: Wet Blue None |
| Cooler Temperature (°C): As-read $\frac{\eta}{2}$ Corr. Factor Corrected $\frac{1}{2}$, Corrected Examining contents: |
| Temperature should be above freezing to 6°C |
| Chain of Custody present: |
| Chain of Custody relinguished: |
| Samples arrived within holding time: |
| Short Hold Time analyses (<72hr): |
| |
| |
| |
| |
| Pace containers used: |
| Containers intact: |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? |
| Filtered volume received for dissolved tests? |
| Sample labels match COC: Date / time / ID / analyses QYes DNo DN/A |
| Samples contain multiple phases? Matrix: W X □Yes \No □N/A |
| Containers requiring pH preservation in compliance? $\nabla_{Yes} \Box_{No} \Box_{N/A}$ List sample IDs, volumes, lot #'s of preservative and the data time added |
| $(HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide)$ $(Exceptions: VOA Micro OSC KS TPH OK-DRO) $ |
| Cyanide water sample checks: |
| Lead acetate strip turns dark? (Record only) |
| Potassium iodide test strip turns blue/purple? (Preserve) |
| Trip Blank present: |
| Headspace in VOA vials (>6mm): |
| Samples from USDA Regulated Area: State: □Yes □No DWA |
| Additional labels attached to 5035A / TX1005 vials in the field? Yes No 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 Req | uested (City/Sta | ite): | | CHAIN-OF- | CUSTODY | (Analytical) | Request | Doci | iment | | | | | - | LAB USE | ONLY | - Affix | Workor | der/Log | gin Label He | ∌re | c | 5 |
| 9608 Loiret Blvd., Lenex | a, KS 66219 | | | Chain-of-Cu | ustody is a LEG | AL DOCUMENT - Co | mpiete all rel | evant fie | elds | | | | 14 | ۳ ۲ | | (| - | 1. 1 | n | 1 | | č | n T |
| | | _ | | Contract (Donate | | | | | | | 194 | 76¥ | | | Col | F | G | | 11 | / | | ç | ຽ |
| Evergy kansas Centra | al, Inc. | | | Contact/Report | IO: Jake Hu | mphrey | | | | | 1 | | | C (| D() | 1 | V 10 | Λ 1 | χV | 3 | | | e P |
| Street Address: 818 5 Kansas Avenue | , Topeka, KS 666 | 12 | | Phone #: | (913)63 | 4-0605 | | | | | | Sec. | Ł۹. | | 44 | ι | 1 | | 1 | | | Ż | ag ag |
| | | | | E-Mail: | jake.hu | mphrey@evergy. | .com | | | | | | | | Sc | an Qi | R Code | for ins | structio | ons | | | - |
| | | | | Cc E-Mail: | skaney | @haleyaldrich.co | m | | | 5 | | | | _ | | | | | | | | | |
| Lustomer Project #: | | | | | | | | | | | | | | Spec | fy Containe | r Size | ** | | | **Container Si 125mL (5) 10 | ze: (1) 1L, (2) 500m 0mL, (6) 40mL vial | nL, (3) 250m (7) EnCore | L, (4) (8) |
| Project Name: JEC FAL CCR | | | | Invoice To: | Jeffrey | Center | | | | 8 | 3 | 2 | 3 | 3 | | | | | | TerraCore, (9) | 90mL, (10) Other | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,., |
| | | | | Invoice E-Mail: | evergya | ap@onlinecaptur | ecenter.con | n | | | | | Ident | ify Con | ainer Prese | rvative | Type** | • | | ••• Preservati | ve Types: (1) None | , (2) HNO3, (| 3) |
| Site Collection Info/Facility ID (as applicable): | | | | Purchase Order | # (if WSTR-2 | 000095397 | | | | | 2 | 1 | 1 | 1 | | | | | | H2SO4, (4) HC | I, (5) NaOH, (6) Zn / od. Thiosulfate (9) | Acetate, (7) Ascorbic Ac | (10) |
| | | | | applicable), | | | | | | | | | | Ar | alysis Requ | ested | | | | MeOH, (11) O | ther | ASCOLDIC AC | 10, (10) |
| | | | | Quote #: | | | _ | | | | | | | | | | | | | Proj. Mg | r: | | 1a |
| Time Zone Collected: [] AK [] PT | | T [] f | ET | County / State o | rigin of sample | (s): Kansas | | | | | | | | | | | | | | Alice S | piller | | ied f |
| Data Denverables: | Regulatory PI | rogram (DV | V, KCRA, ei | tc,j as applicable: | керогта | ble []Yes [X |] No | | | | | gs | | | | | | | | AcctNum | n / Client ID: | | entif |
| []Level II []Level III []Level IV | | R | sh (Pre- | approval requir | ed): | IDW PWS | D # or WW Pr | irmit# as | annlicahl | ý. | | Soli | | <u>.</u> 2 | | | | | | | | | ei ei |
| L. LEONA | []Same [| Day []10 | Day [] 2 | Day [] 3 Day [|] Other | | | and the second s | abburant | 9 | 99 | ed | | net | | | | | | able #: | | | uan. |
| []EQUIS | Date Results | | | | | Field Filtered (if a | pplicable): |] Yes | [X] No | | .1/6 | solv | 4 | ī | | | | | | Profile / | Template: | | nfor |
| [] Other | Requested: | | | | | Analysis: | | | | | 245 | Disi | S | | | | | | | 16500 |) | | 02-CC |
| * Matrix Codes (Insert in Matrix box below): D | Drinking Water (DW | /), Ground | Water (GW | V), Waste Water (| WW), Product (| P), Soil/Solid (SS), O | iil (OL), Wipe | (WP), Ti | ssue (TS), | Bioassay | /8. | otal | Ľ. | Ξ. | | | | | | Prelog / | Bottle Ord, ID: | | |
| (b), vapor (v), surrace water (sw),sediment (| SED), Sludge (SL), C | auik (CK), | Leachate (| Composi | other (OT) | Collected or Co | mnosito End | | Boc C | blorino | /20(| Ĕ | Ū. | + | | | | | | EZ 31 | 50832 | | vatio |
| Customer Sample I | D | Matrix | Grab | Data | Time | Dete | | - Cont. | nes. c | lusia | 00.7 | 2400 | 0.0 | 000 | 0 | | | | | Sar | nple Comme | ent | reser |
| | | | | Date | lime | Date | lime | | Results | Units | 30 | 5 | 30 | 4 | | _ | _ | _ | | | | | ā. |
| FAA-3-090424 | | WT | Grab | 3 | St. (| 9/4/20224 | 1440 | 4 | 21 | | X | X | X | X | | | | | | | | | |
| FAA-4-090424 | | wT | Grab | | 147 | 9/4/2024 | 1510 | 4 | 4 | 2 0 | X | X | x | x | | | | | | | | | |
| FAA-6-090424 | | wT | Grab | | 24.5 | 9/4/20224 | 1545 | 4 | - | - QC | x | x | x | x | | | | | 1 | | | | |
| JEC-FAA-DUP-090424 | Ļ | WT | Grab | | :=>: | 9/4/2024 | 1545 | 4 | | 242 | x | x | x | x | | | - | | 1 | | | | - |
| | | - | | | | | | - | | | - | | | | | + | | - | + | | | | \vdash |
| | | | - | | - | | | | | | | | | | | | | _ | | | | | |
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| | | | | | | | | 1 | - | 1 | | | - | | | + | | | + | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | |
| Additional Instructions from Pace®: | | _ | | | Collected By | | | - | · · | · | Custor | ner Rer | narks / | I Special | Conditions | / Poss | ible Haza | ards: | _ | | | | <u> </u> |
| Metals: B, Ca, As, Ba, Co, Hg, Li, Mo | | | | | (Printed Nar | ne) | Jason H | K. Fra | anks | | | | | | | | | | | | | | |
| | | | | | Signature: | Dave | \mathcal{D} | 7- | a las | | # Co | olers: | | Thermo | meter ID: | C | prrection i | actor (*C) |): Ob | /s. Temp. (°C) | Corrected Terry | (TC) 0 | in Ice: |
| | | | | | | jaso | m K. | 770 | inks | - | - | | | | | _ | | | | | 3.1 | 2 | |
| Relinquished by/Company: (Signature) | 1 505 | | Date/Time | 09/05/2024 / | 1220 | Received by/Company | y: (Signature) | 0 | 10 | | 2 | _ | | Date/T | reil C | 1 | 76 | A | Tracki | ng Number: | | | - |
| Relinquished by/Company: (Signature) | 1 363 | | Date/Time | 55/05/2024/ | 1530 | Received by/Company | v: (Signation) | | - | | | | | 9 | () | _/ | A7 | $\overline{\mathcal{O}}$ | _ | | | | |
| , | | | porc/ mile | • | | Thereived by/company | y. (Signate) | - | | | | | | Date/Ti | ne: | | | | Delive | ered by: [] | 1-Person [] | Courier | |
| Relinquished by/Company: (Signature) | | | Date/Time | | | Received by/Company | y: (Signature) | | | | _ | | | Date/Ti | De: | | | _ | 4 | | | | |
| | | | | | | | | | | | | | | | | | | | | [] FedEX | []UPS [|] Other | |
| Relinquished by/Company: (Signature) | | | Date/Time | | | Received by/Company | y: (Signature) | | | | | | | Date/Ti | ne: | | | | Pa | age: 1 | of | 1 | _ |

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

| | DC#_ Effec | _Title: E tive Dat | ENV-FRI e: 7/12/2 | VI-LENE 2024 Client: | -0001 v | 07_San | nple Cor | ntainer C | | ns | 95 | , (| Cl | 4 | 40 | rq | (| In | Profi | | <u>}(</u> | G | 0 | R | 5 | \searrow | - | | | | 9 of 30 |
|------------------|---------------|-----------------------|----------------------|----------------------------|------------|--------|----------|-----------|------|----------|------|------|------|------|------|------|------|------|-------|-------|-----------|---------------|------|------|------|------------|------|------|------|-------|-------------|
| | | | | Site: | <u>َلْ</u> | E(| F | -A | Ľ | C | (6 | ζ | | | | | | | 4 | Notes | | _ | | 5 | | | | | | | Pade |
| 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 | WI | | | | | | | | | | | | | | | | | | | 1 | 720 | $\frac{1}{1}$ | | | | | | | | | |
| 3 | | | | | | | | | | <i>.</i> | | | | | | | | | | 1 | V | 1 | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Container Codes

| | | Glass | | | Plastic | | Misc. |
|------|-----------------------------|-------|-------------------------------------|------|-------------------------------------|------|-------------------------------|
| DG9B | 40mL bisulfate clear vial | WGKU | 8oz clear soil jar | BP1B | 1L NAOH plastic | 11 | Wipe/Swab |
| DG9H | 40mL HCI amber voa 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 HCI 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 HCI 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 | | Motrix |
| BG1S | 1liter H2SO4 clear glass | AG2S | 500mL H2SO4 amber glass | BP3B | 250mL NaOH plastic | | IVIGUIX |
| 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 Liguid |
| 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 |

| BP3B | ZOUTIL NAUH plastic | | |
|------|-------------------------------------|-----|----------------|
| BP3F | 250mL HNO3 plastic - field filtered | WT | Water |
| BP3N | 250mL HNO3 plastic | SL | Solid |
| BP3U | 250mL unpreserved plastic | NAL | Non-aqueous L |
| BP3S | 250mL H2SO4 plastic | OL | OIL |
| BP3Z | 250mL NaOH, Zn Acetate | WP | Wipe |
| BP4U | 125mL unpreserved plastic | DW | Drinking Water |
| BP4N | 125mL HNO3 plastic | 1 | |
| BP4S | 125mL H2SO4 plastic | | |
| WPDU | 16oz unpresserved plstic | | |
| | | | |

Work Order Number:

Intra-Regional Chain of Custody



| Workorder: 60459912 Workorder Name: JEC FAL CCR | | | | | | | | | Owner Received Date: 9/5/2024 Due Date: 9/19/20 | | | | | | | | | 9/20 | 24 | | | | |
|---|--|----------------|---|---|-------------|-------------|------|----------|---|--------|------------|------|---------------|-------|-------|---------|-------|---------|----|-----------|------|------|--------------|
| Rece | ived at: | | Send To L | ab: | 1. A. S. S. | | | 10.12 | 100 | | | | | | Requ | ested | Ana | lysis | | | | | |
| Pac 960 Len Pho | e Analytical Kansas 3 Loiret Blvd. exa, KS 66219 ne (913)599-5665 | | Pace Ana 528 N. 9 Salina, K Phone (7 | slytical Salina h Street S 67401 85)827-1273 | | | | | | | 000 | | | | | | | | | | | | |
| Alice | e Spiller | | | | | | Pres | served (| Contain | ers | EPA 3 | | | | | | | | | | | | |
| ltem | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Unpreserved | | | | | | | | | | | | | | | | | LAB USE ONLY |
| 1 | FAA-3-090424 | PS | 9/4/2024 14:40 | 60459912001 | Water | 1 | | | | | X | | | | | | | | | | | | |
| 2 | FAA-4-090424 | PS | 9/4/2024 15:10 | 60459912002 | Water | 1 | | | | | X | | | | | | | | | \square | | | |
| 3 | FAA-6-090424 | PS | 9/4/2024 15:45 | 60459912003 | Water | 1 | | | | | X | | | | | | | | | \square | | | |
| 4 | JEC-FAA-DUP-090424 | PS | 9/4/2024 15:45 | 60459912004 | Water | 1 | | | | | X | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7-11-54 | | | | 100 | | | 6.00 | | | | | | 12 | | 8. | Co | mm | ents | ñ. | 49.2 | 84 7 1 |
| Tran 1 | sfers Released By | | Date/Time | Received E | By | | Z | | Dat | te/Tin | me 1 Se | | 300.0 | CI,F, | SO4 | on: 60 | 000 | | | | | | |
| 2 | | | | 10 | × | _ | | 8510 | | | | - ' | ~ 5 sa | mpie | locat | 011: 60 | 190-1 | 72-53 | B | | | | |
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| Coo | ler Temperature on Rece | ipt / · · | C Cu | stody Seal | Dor N | 1 | | R | eceive | d o | n Ice | æ | D or | N | | | | Sa | mp | les | Inta | c | Dor N |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



September 20, 2024

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

RE: Project: MW-FAA-5 Pace Project No.: 60459930

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Kansas City

• Pace Analytical Services - Salina

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

Sincerely,

alice Spiller

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

Enclosures

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





Pace Analytical Services, LLC 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

CERTIFICATIONS

Project: MW-FAA-5 Pace Project No.: 60459930

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

Pace Analytical Services Salina

528 N 9th Street, Salina, KS 67401 Kansas/NELAP Certification: # E-10146 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

Oklahoma Certification: 2023-074 Texas Certification: T104704246-23-15



SAMPLE SUMMARY

| Project: | MW-FAA-5 | | | |
|-------------------|--------------|--------|----------------|----------------|
| Pace Project No.: | 60459930 | | | |
| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
| 60459930001 | FAA-5-090424 | Water | 09/04/24 13:05 | 09/05/24 12:50 |



SAMPLE ANALYTE COUNT

| Project: | MW-FAA-5 | | | | |
|-----------------|--------------|-------------|----------|----------------------|------------|
| Pace Project No | .: 60459930 | | | | |
| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
| 60459930001 | FAA-5-090424 | EPA 200.7 | ARMN | 3 | PASI-K |
| | | EPA 6010 | ARMN | 1 | PASI-K |
| | | EPA 200.8 | JGP | 10 | PASI-K |
| | | EPA 245.1 | MLD | 1 | PASI-K |
| | | EPA 300.0 | MLL | 3 | PASI-SA |
| | | SM 2540C | TML | 1 | PASI-K |
| | | SM 4500-H+B | TML | 1 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City

PASI-SA = Pace Analytical Services - Salina



Project: MW-FAA-5 Pace Project No.: 60459930

Method:EPA 200.7Description:200.7 Metals, TotalClient:Evergy_Haley & AldrichDate:September 20, 2024

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: 907702

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60459928004,60459957004

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

- MS (Lab ID: 3592655)
 - Calcium
- MS (Lab ID: 3592663)
 - Calcium

Additional Comments:



Project: MW-FAA-5 Pace Project No.: 60459930

Method:EPA 6010Description:6010 MET ICPClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: MW-FAA-5 Pace Project No.: 60459930

Method:EPA 200.8Description:200.8 MET ICPMSClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: MW-FAA-5 Pace Project No.: 60459930

Method:EPA 245.1Description:245.1 MercuryClient:Evergy_Haley & AldrichDate:September 20, 2024

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:



Project: MW-FAA-5 Pace Project No.: 60459930

Method:EPA 300.0Description:300.0 IC Anions 28 DaysClient:Evergy_Haley & AldrichDate:September 20, 2024

General Information:

1 sample was analyzed for EPA 300.0 by Pace Analytical Services Salina. 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.

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.

Surrogates:

All surrogates 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:



Project: MW-FAA-5 Pace Project No.: 60459930

Method:SM 2540CDescription:2540C Total Dissolved SolidsClient:Evergy_Haley & Aldrich

Client:Evergy_Haley & AldrichDate:September 20, 2024

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:



| Project: | MW-FAA-5 |
|-------------------|----------|
| Pace Project No.: | 60459930 |

Method: SM 4500-H+B

Description:4500H+ pH, ElectrometricClient:Evergy_Haley & AldrichDate:September 20, 2024

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-5-090424 (Lab ID: 60459930001)

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.



ANALYTICAL RESULTS

| Project: | MW-FAA-5 |
|-------------------|----------|
| Pace Project No · | 60459930 |

| Sample: FAA-5-090424 | Lab ID: 60 | 459930001 | Collected: 09/04/2 | 24 13:05 | 5 Received: 09 | 0/05/24 12:50 | Matrix: Water | |
|-------------------------------|---------------|---------------|----------------------|----------|----------------|---------------|---------------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 200.7 Metals, Total | Analytical Me | thod: EPA 20 | 00.7 Preparation Met | hod: EF | PA 200.7 | | | |
| | Pace Analytic | al Services · | Kansas City | | | | | |
| Barium, Total Recoverable | <0.0050 | mg/L | 0.0050 | 1 | 09/06/24 15:06 | 09/18/24 12:1 | 4 7440-39-3 | |
| Boron, Total Recoverable | 1.7 | mg/L | 0.10 | 1 | 09/06/24 15:06 | 09/18/24 12:1 | 4 7440-42-8 | |
| Calcium, Total Recoverable | 518 | mg/L | 0.20 | 1 | 09/06/24 15:06 | 09/18/24 12:1 | 4 7440-70-2 | |
| 6010 MET ICP | Analytical Me | thod: EPA 60 | 010 Preparation Met | nod: EP | A 3010 | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| Lithium, Total Recoverable | 0.14 | mg/L | 0.010 | 1 | 09/06/24 09:58 | 09/10/24 12:0 | 9 7439-93-2 | |
| 200.8 MET ICPMS | Analytical Me | thod: EPA 20 | 00.8 Preparation Met | hod: EF | PA 200.8 | | | |
| | Pace Analytic | al Services · | Kansas City | | | | | |
| Antimony, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-36-0 | |
| Arsenic, Total Recoverable | 0.0012 | mg/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-38-2 | |
| Beryllium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-41-7 | |
| Cadmium, Total Recoverable | <0.00050 | mg/L | 0.00050 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-43-9 | |
| Chromium. Total Recoverable | 0.0013 | ma/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-47-3 | |
| Cobalt, Total Recoverable | 0.0025 | ma/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-48-4 | |
| Lead. Total Recoverable | <0.0010 | ma/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7439-92-1 | |
| Molvbdenum. Total Recoverable | 0.021 | ma/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7439-98-7 | |
| Selenium, Total Recoverable | <0.0010 | ma/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7782-49-2 | |
| Thallium, Total Recoverable | <0.0010 | mg/L | 0.0010 | 1 | 09/10/24 13:53 | 09/17/24 16:4 | 8 7440-28-0 | |
| 245.1 Mercury | Analytical Me | thod: EPA 24 | 45.1 Preparation Met | hod: EF | PA 245.1 | | | |
| | Pace Analytic | al Services · | Kansas City | | | | | |
| Mercury | <0.20 | ug/L | 0.20 | 1 | 09/06/24 09:55 | 09/06/24 15:1 | 1 7439-97-6 | |
| 300.0 IC Anions 28 Days | Analytical Me | thod: EPA 30 | 0.0 | | | | | |
| | Pace Analytic | al Services · | Salina | | | | | |
| Chloride | 84.0 | mg/L | 10.0 | 10 | | 09/12/24 03:0 | 7 16887-00-6 | |
| Fluoride | 0.79 | mg/L | 0.10 | 1 | | 09/11/24 14:5 | 5 16984-48-8 | |
| Sulfate | 2110 | mg/L | 200 | 200 | | 09/12/24 03:2 | 2 14808-79-8 | |
| 2540C Total Dissolved Solids | Analytical Me | thod: SM 25 | 40C | | | | | |
| | Pace Analytic | al Services · | Kansas City | | | | | |
| Total Dissolved Solids | 3420 | mg/L | 100 | 1 | | 09/06/24 10:1 | 7 | |
| 4500H+ pH, Electrometric | Analytical Me | thod: SM 45 | 00-H+B | | | | | |
| | Pace Analytic | al Services - | Kansas City | | | | | |
| pH at 25 Degrees C | 6.8 | Std. Units | s 0.10 | 1 | | 09/10/24 17:2 | 8 | H6 |



| Mercury | ug/L | <0.2 | 0 5 | 4.2 | 84 | 4 70-130 | |
|---|------------|-----------------------|--------------------|-----------------|-----------------|-----------------|------------|
| Parameter | Units | 60459912001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| MATRIX SPIKE SAMPLE: | 3592236 | | | | | | |
| Mercury | ug/L | NI | D 5 | 4.9 | 98 | 3 70-130 | |
| Parameter | Units | Result | Conc. | Result | % Rec | Limits | Qualifiers |
| MATRIX SPIKE SAMPLE: | 3592235 | 60459802001 | Snike | MS | MS | % Rec | |
| Mercury | ug/L | 5 | 4.7 | 95 | 85-115 | | |
| Parameter | Units | Conc. R | esult | % Rec | Limits | Qualifiers | |
| LABORATORY CONTROL SAMPL | E: 3592234 | Spike I | CS | LCS | % Rec | | |
| Mercury | ug/L | <0.20 | 0.2 | 20 09/06/24 14 | :16 | | |
| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifie | ers | |
| Associated Lab Samples: 60459 | 930001 | | | | | | |
| METHOD BLANK: 3592233 | | Matrix: | Water | | | | |
| Associated Lab Samples: 60459 | 930001 | · | | | | · | |
| QC Daton Method. ETA 240.1 | | Laboratory: | inpuon. | Pace Analytical | Services - Kans | as City | |
| QC Batch: 907629 | | Analysis Metr | 100: cription: | EPA 245.1 | | | |
| | | | | | | | |
| Project. MW-FAA-5 Pace Project No · 60459930 | | | | | | | |
| Project: MIN/-EAA-5 | | | | | | | |

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.



| Project: | MW-FAA-5 | | | | | | | | | | | |
|--------------------|-----------------|--------------|-------|-------------|-----------|------------|--------------|------------|------------|--------|-------|-------|
| Pace Project No.: | 60459930 | | | | | | | | | | | |
| QC Batch: | 907702 | | Anal | ysis Metho | d: | EPA 200.7 | | | | | | |
| QC Batch Method: | EPA 200.7 | | Anal | ysis Descri | ption: | 200.7 Meta | ls, Total | | | | | |
| | | | Labo | oratory: | | Pace Analy | tical Servic | es - Kansa | s City | | | |
| Associated Lab Sar | nples: 60459930 | 001 | | | | | | | | | | |
| METHOD BLANK: | 3592651 | | | Matrix: W | ater | | | | | | | |
| Associated Lab Sar | nples: 60459930 | 001 | | | | | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | |
| Parar | neter | Units | Res | sult | Limit | Anal | yzed | Qualifier | s | | | |
| Barium | | mg/L | < | 0.0050 | 0.005 | 09/18/2 | 4 12:04 | | | | | |
| Boron | | mg/L | | <0.10 | 0.1 | 0 09/18/2 | 4 12:04 | | | | | |
| Calcium | | mg/L | | <0.20 | 0.2 | 0 09/18/2 | 4 12:04 | | | | | |
| LABORATORY CO | NTROL SAMPLE: | 3592652 | | | | | | | | | | |
| | | | Spike | LC | S | LCS | % R | lec | | | | |
| Parar | neter | Units | Conc. | Res | sult | % Rec | Lim | its | Qualifiers | | | |
| Barium | | mg/L | | 1 | 0.94 | 9 | 4 | 85-115 | | _ | | |
| Boron | | mg/L | | 1 | 0.90 | 9 | 0 | 85-115 | | | | |
| Calcium | | mg/L | | 10 | 10.1 | 10 | 1 | 85-115 | | | | |
| MATRIX SPIKE SA | MPLE: | 3592655 | | | | | | | | | | |
| | | | 60459 | 9957004 | Spike | MS | | MS | % Rec | | | |
| Parar | neter | Units | Re | esult | Conc. | Result | 9 | % Rec | Limits | | Quali | fiers |
| Barium | | mg/L | | 0.013 | 1 | | 1.0 | 98 | 70 | -130 | | |
| Boron | | mg/L | | 0.20 | 1 | | 1.2 | 96 | 70 | -130 | | |
| Calcium | | mg/L | | 231 | 10 | | 254 | 223 | 70 | -130 M | 1 | |
| MATRIX SPIKE & N | ATRIX SPIKE DUP | LICATE: 3592 | 663 | | 3592664 | 1 | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 60459928004 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramete | r Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Barium | mg/L | 0.031 | 1 | 1 | 1.0 | 0.96 | 100 | 93 | 70-130 | 7 | 20 | |
| Boron | mg/L | 0.64 | 1 | 1 | 1.6 | 1.6 | 99 | 91 | 70-130 | 5 | 20 | |
| Calcium | mg/L | 255 | 10 | 10 | 283 | 263 | 288 | 80 | 70-130 | 8 | 20 | M1 |
| | | | | | | | | | | | | |

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REPORT OF LABORATORY ANALYSIS

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| Project: | MW-FAA-5 | | | | | | | |
|--------------------|-----------------|---------|------------|-------------|----------------|-------------------|------------|--|
| Pace Project No .: | 60459930 | | | | | | | |
| QC Batch: | 908014 | | Analysis M | ethod: | EPA 200.8 | | | |
| QC Batch Method: | EPA 200.8 | | Analysis D | escription: | 200.8 MET | | | |
| | | | Laboratory | : | Pace Analytica | al Services - Kai | nsas City | |
| Associated Lab San | nples: 60459930 | 001 | | | | | | |
| METHOD BLANK: | 3593670 | | Matri | x: Water | | | | |
| Associated Lab San | nples: 60459930 | 001 | | | | | | |
| | | | Blank | Reporting | | | | |
| Paran | neter | Units | Result | Limit | Analyze | ed Quali | ifiers | |
| Antimony | | mg/L | <0.0010 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Arsenic | | mg/L | <0.0010 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Beryllium | | mg/L | <0.00050 | 0.0005 | 0 09/17/24 1 | 16:43 | | |
| Cadmium | | mg/L | <0.00050 | 0.0005 | 0 09/17/24 1 | 16:43 | | |
| Chromium | | mg/L | <0.001 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Cobalt | | mg/L | <0.001 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Lead | | mg/L | <0.001 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Molybdenum | | mg/L | <0.001 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Selenium | | mg/L | <0.001 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| Thallium | | mg/L | <0.0010 | 0.001 | 0 09/17/24 1 | 16:43 | | |
| LABORATORY CON | NTROL SAMPLE: | 3593671 | | | | | | |
| | | | Spike | LCS | LCS | % Rec | | |
| Paran | neter | Units | Conc. | Result | % Rec | Limits | Qualifiers | |
| Antimony | | ma/l | | 0.030 | 08 | 85-115 | | |

| Antimony | mg/L | 0.04 | 0.039 | 98 | 85-115 | |
|------------|------|------|-------|-----|--------|--|
| Arsenic | mg/L | 0.04 | 0.040 | 101 | 85-115 | |
| Beryllium | mg/L | 0.04 | 0.041 | 102 | 85-115 | |
| Cadmium | mg/L | 0.04 | 0.041 | 101 | 85-115 | |
| Chromium | mg/L | 0.04 | 0.041 | 103 | 85-115 | |
| Cobalt | mg/L | 0.04 | 0.041 | 102 | 85-115 | |
| Lead | mg/L | 0.04 | 0.040 | 99 | 85-115 | |
| Molybdenum | mg/L | 0.04 | 0.040 | 101 | 85-115 | |
| Selenium | mg/L | 0.04 | 0.041 | 102 | 85-115 | |
| Thallium | mg/L | 0.04 | 0.040 | 99 | 85-115 | |
| | | | | | | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3593672 | | | | | 3593673 | | | | | | | |
|--|-------|-------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | | 60459930001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Antimony | mg/L | <0.0010 | 0.04 | 0.04 | 0.037 | 0.037 | 93 | 93 | 70-130 | 1 | 20 | |
| Arsenic | mg/L | 0.0012 | 0.04 | 0.04 | 0.041 | 0.041 | 99 | 98 | 70-130 | 1 | 20 | |
| Beryllium | mg/L | <0.00050 | 0.04 | 0.04 | 0.034 | 0.035 | 86 | 87 | 70-130 | 2 | 20 | |
| Cadmium | mg/L | <0.00050 | 0.04 | 0.04 | 0.036 | 0.036 | 89 | 89 | 70-130 | 1 | 20 | |
| Chromium | mg/L | 0.0013 | 0.04 | 0.04 | 0.041 | 0.041 | 100 | 99 | 70-130 | 1 | 20 | |
| Cobalt | mg/L | 0.0025 | 0.04 | 0.04 | 0.044 | 0.044 | 103 | 103 | 70-130 | 0 | 20 | |
| Lead | mg/L | <0.0010 | 0.04 | 0.04 | 0.038 | 0.038 | 95 | 95 | 70-130 | 0 | 20 | |
| Molybdenum | mg/L | 0.021 | 0.04 | 0.04 | 0.065 | 0.064 | 108 | 108 | 70-130 | 0 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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Project: MW-FAA-5 Pace Project No.: 60459930

| MATRIX SPIKE & MATRIX SP | | 3593673 | | | | | | | | | | |
|--------------------------|-------|-------------|-------------|--------------|--------|--------|-------|-------|--------|-----|-----|------|
| | | 60459930001 | MS Spike | MSD Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Selenium | mg/L | <0.0010 | 0.04 | 0.04 | 0.041 | 0.042 | 103 | 104 | 70-130 | 2 | 20 | |
| Thallium | mg/L | <0.0010 | 0.04 | 0.04 | 0.040 | 0.040 | 99 | 99 | 70-130 | 0 | 20 | |

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| Project: | MW-FAA-5 | | | | | | | | | | | |
|--------------------|-----------------|--------------|-------|-----------|-------------|-------------|--------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 60459930 | | | | | | | | | | | |
| QC Batch: | 907611 | | Ana | ysis Meth | nod: l | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Ana | ysis Desc | cription: 6 | 6010 MET | | | | | | |
| | | | Labo | oratory: | I | Pace Analyt | ical Service | es - Kansas | s City | | | |
| Associated Lab Sam | ples: 604599300 | 001 | | | | | | | | | | |
| METHOD BLANK: | 3592168 | | | Matrix: | Water | | | | | | | |
| Associated Lab Sam | ples: 604599300 | 001 | | | | | | | | | | |
| | | | Bla | ink | Reporting | | | | | | | |
| Param | neter | Units | Res | sult | Limit | Analy | /zed | Qualifiers | S | | | |
| Lithium | | mg/L | | <0.010 | 0.01 | 0 09/10/24 | 4 11:41 | | | | | |
| LABORATORY CON | ITROL SAMPLE: | 3592169 | | | | | | | | | | |
| | | | Spike | l | LCS | LCS | % Re | ес | | | | |
| Param | neter | Units | Conc. | R | esult | % Rec | Limi | ts (| Qualifiers | | | |
| Lithium | | mg/L | | 1 | 1.2 | 118 | 3 8 | 30-120 | | | | |
| MATRIX SPIKE & M | ATRIX SPIKE DUP | _ICATE: 3592 | 170 | | 3592171 | | | | | | | |
| | | | MS | MSD | | | | | _ | | | |
| Dama | 11.5 | 60459912001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | 0 |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | LIMITS | RPD | RPD | Qual |
| Lithium | mg/L | 0.015 | 1 | | 1 1.2 | 1.2 | 118 | 119 | 75-125 | 1 | 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.



| Project: | MW-F | AA-5 | | | | | | | | | | | |
|-------------------|---------|------------|--------------|-------|-------------|-----------|-------------|---------------|-------------|------------|-----|-----|------|
| Pace Project No.: | 60459 | 930 | | | | | | | | | | | |
| QC Batch: | 9079 | 950 | | Anal | ysis Metho | d: E | EPA 300.0 | | | | | | |
| QC Batch Method | : EPA | 300.0 | | Anal | ysis Descri | ption: 3 | 300.0 IC Ar | ions | | | | | |
| | | | | Labo | oratory: | F | Pace Analy | tical Service | es - Salina | | | | |
| Associated Lab S | amples: | 604599300 | 01 | | | | | | | | | | |
| METHOD BLANK | : 35934 | 27 | | | Matrix: W | ater | | | | | | | |
| Associated Lab Sa | amples: | 604599300 | 01 | | | | | | | | | | |
| | | | | Bla | nk | Reporting | | | | | | | |
| Par | ameter | | Units | Res | ult | Limit | Anal | yzed | Qualifiers | \$ | | | |
| Chloride | | | mg/L | | <1.0 | 1.(| 0 09/11/2 | 4 08:11 | | | | | |
| Fluoride | | | mg/L | | <0.10 | 0.10 | 0 09/11/2 | 4 08:11 | | | | | |
| Sulfate | | | mg/L | | <1.0 | 1.(| 0 09/11/2 | 4 08:11 | | | | | |
| | ONTROL | SAMPLE: | 3593428 | | | | | | | | | | |
| | | | | Spike | LC | S | LCS | % Re | ec | | | | |
| Par | ameter | | Units | Conc. | Res | sult | % Rec | Limi | ts C | Jualifiers | | | |
| Chloride | | | mg/L | | 5 | 4.9 | 9 | 8 9 | 90-110 | | _ | | |
| Fluoride | | | mg/L | 2 | .5 | 2.6 | 10 | 2 9 | 90-110 | | | | |
| Sulfate | | | mg/L | | 5 | 5.1 | 10 | 1 9 | 90-110 | | | | |
| MATRIX SPIKE & | MATRIX | | _ICATE: 3593 | 429 | | 3593430 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| | | | 60459912001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramet | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | | mg/L | 175 | 100 | 100 | 282 | 281 | 107 | 106 | 80-120 | 0 | 15 | |
| Fluoride | | mg/L | 0.30 | 2.5 | 2.5 | 2.7 | 2.7 | 96 | 96 | 80-120 | 0 | 15 | |
| Sulfate | | mg/L | 880 | 500 | 500 | 1360 | 1380 | 97 | 99 | 80-120 | 1 | 15 | |
| MATRIX SPIKE & | MATRIX | SPIKE DUPL | LICATE: 3593 | 431 | | 3593432 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| | | | 60459957004 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramet | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chloride | | mg/L | 66.0 | 50 | 50 | 119 | 120 | 106 | 108 | 80-120 | 1 | 15 | |
| Fluoride | | mg/L | 0.33 | 2.5 | 2.5 | 2.7 | 2.7 | 95 | 95 | 80-120 | 0 | 15 | |
| Sulfate | | mg/L | 592 | 500 | 500 | 1110 | 1100 | 104 | 102 | 80-120 | 1 | 15 | |
| | | | | | | | | | | | | | |

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| Project: | MW-FAA-5 | | | | | | | | |
|-----------------------|----------------|---------|-------------|---------------|----------------|-----------------|--------|------------|--|
| Pace Project No.: | 60459930 | | | | | | | | |
| QC Batch: | 907636 | | Analysis M | ethod: S | SM 2540C | | | | |
| QC Batch Method: | SM 2540C | | Analysis De | escription: 2 | 2540C Total Di | ssolved Solids | | | |
| | | | Laboratory | : F | Pace Analytica | l Services - Ka | nsas C | lity | |
| Associated Lab Sam | ples: 60459930 | 0001 | | | | | | | |
| METHOD BLANK: | 3592254 | | Matrix | c: Water | | | | | |
| Associated Lab Sam | ples: 60459930 | 0001 | | | | | | | |
| | | | Blank | Reporting | | | | | |
| Param | eter | Units | Result | Limit | Analyze | d Qual | ifiers | | |
| Total Dissolved Solid | S | mg/L | <5.0 | 5.0 | 0 09/06/24 10 | D:14 | | - | |
| | | | | | | | | | |
| LABORATORY CON | TROL SAMPLE: | 3592255 | | | | | | | |
| | | | Spike | LCS | LCS | % Rec | | | |
| Param | eter | Units | Conc. | Result | % Rec | Limits | Qua | alifiers | |
| Total Dissolved Solid | s | mg/L | 1000 | 981 | 98 | 80-120 | | | |
| | E. 2502050 | | | | | | | | |
| SAMPLE DUPLICAT | E: 3592256 | | 60450722004 | Dup | | Max | | | |
| Param | eter | Units | Result | Result | RPD | RPD | | Qualifiers | |
| Total Dissolved Solid | S | mg/L | 844 | 888 | 8 | 5 | 10 | | |
| | | | | | | | | | |
| SAMPLE DUPLICAT | E: 3592257 | | | | | | | | |
| _ | | | 60459922004 | Dup | | Max | | | |
| Param | eter | Units | Result | Result | RPD | RPD | | Qualifiers | |
| Total Dissolved Solid | S | mg/L | 624 | 633 | 3 | 1 | 10 | | |

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| Project: | MW-FAA-5 | | | | | | | | |
|-------------------------------|-------------------|---------------|---------------|----------------|-------------|---|-----|------------|--|
| Pace Project No.: | 60459930 | | | | | | | | |
| QC Batch: | 907980 | | Analysis Meth | od: | SM 4500-H+B | | | | |
| QC Batch Method: | SM 4500-H+B | Analysis Desc | 4500H+B pH | | | | | | |
| | | | Laboratory: | Pace Analytica | | | | | |
| Associated Lab Sam | nples: 6045993000 | 1 | | | | | | | |
| SAMPLE DUPLICAT | FE: 3593536 | | | | | | | | |
| | | | 60459928003 | Dup | | I | Max | | |
| Param | neter | Units | Result | Result | RPD | F | RPD | Qualifiers | |
| pH at 25 Degrees C Std. Units | | | 6.8 | | 6.8 | | | | |

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QUALIFIERS

| Project: | MW-FAA-5 |
|--------------------|----------|
| Pace Project No .: | 60459930 |

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

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:MW-FAA-5Pace Project No.:60459930

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|----------|-------------------|---------------------|
| 60459930001 | FAA-5-090424 | EPA 200.7 | 907702 | EPA 200.7 | 907742 |
| 60459930001 | FAA-5-090424 | EPA 3010 | 907611 | EPA 6010 | 907670 |
| 60459930001 | FAA-5-090424 | EPA 200.8 | 908014 | EPA 200.8 | 908035 |
| 60459930001 | FAA-5-090424 | EPA 245.1 | 907629 | EPA 245.1 | 907660 |
| 60459930001 | FAA-5-090424 | EPA 300.0 | 907950 | | |
| 60459930001 | FAA-5-090424 | SM 2540C | 907636 | | |
| 60459930001 | FAA-5-090424 | SM 4500-H+B | 907980 | | |

| | | | W0#:60459930 |
|---|-------------------------------------|------------------------|--|
| Pace | DC#_Title: ENV-FRM-I | _ENE-0009_Samp | le (60459930 |
| ANNIVITICAL SERVICES | Revision: 2 Effe | ctive Date: 01/12/20 | 22 Issuea by. Louis |
| Client Name: E | JERDX KS | | 1 |
| Courier: FedEx DUPS | □ VIA □ Clay □ I | | Pace 🗆 Xroads 🗆 Client 🔽 Other 🗆 |
| Tracking #: | Pac | e Shipping Label Used | i? Yes 🔍 No 🗆 |
| Custody Seal on Cooler/Box I | Present: Yes 🔍 No 🗆 | Seals intact: Yes | |
| Packing Material: Bubble | Wrap Bubble Bags | 🗆 🛛 Foam 🗆 | None D Other |
| Thermometer Used: | Type of | fice: Wet Blue Nor | 1e 4 1 Date and initials of person . (|
| Cooler Temperature (°C): A | s-read <u>4</u> , <u>Corr.</u> Fact | or Correct | ed examining contents: |
| Temperature should be above freez | ing to 6°C | | |
| Chain of Custody present: | | | |
| Chain of Custody relinquished: | | | |
| Samples arrived within holding | time: | | - |
| Short Hold Time analyses (<7 | 2hr): | □Yes \$ No □N/A | 2 |
| Rush Turn Around Time requ | ested: | | |
| Sufficient volume: | | Nes No N/A | |
| Correct containers used: | | | |
| Done containers used. | | | |
| | | | |
| Containers Intact: | | | |
| Unpreserved 5035A / TX1005/1 | 006 soils frozen in 48hrs? | | |
| Filtered volume received for dis | solved tests? | LIYes DNo LIN/A | |
| Sample labels match COC: Date | e / time / ID / analyses | Yes No N/A | |
| Samples contain multiple phase | es? Matrix: W Y | | |
| Containers requiring pH preserv | vation in compliance? | Yes No N/A | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| (HNO ₃ , H ₂ SO ₄ , HCI<2; NaOH>9 Su (Exceptions: VOA, Micro, O&G, KS | TPH, OK-DRO) | 887(21 | |
| Lead acetate strip turns dark? (I | Record only) | □Yes □No | |
| Potassium iodide test strip turns | blue/purple? (Preserve) | □Yes □No | |
| Trip Blank present: | | | |
| Headspace in VOA vials (>6mr | n): | | |
| Samples from USDA Regulated | Area: State: | | |
| Additional labels attached to 50 | 35A / TX1005 vials in the field | | |
| Client Notification/ Resolution | Copy COC to | o Client? Y / N | Field Data Required? Y / N |
| Person Contacted: | Date/1 | Time: | |
| Comments/ Resolution: | | | |
| | | | |
| Project Manager Review: | | Date | X |

| Pace® Location Requested (City/State): | | | | | | | | | | | | LAB USE ONLY- Affix Workorder/Login Label Here | | | | | | | | | | | | | |
|--|--------------------------------|--------------------|---------------|-------------|---------------------------------|-----------------|----------------------------------|---------------------|----------------|------------|-------------|--|--|----------|----------|-----------------------------|---------|--------------|-------------|---------------|----------------|--|------------------------------------|-------------------------|-----|
| Pare | Pace Analytical Kansas | | | | CHAIN-OF- | CUSTODY | Analytic | al Request | Docu | ment | | ENVOLUMENTE O L - LIC | | | | | | | | | | 26 | | | |
| -1 acc | 9608 Loiret Blvd., Lenexa, k | S 66219 | | | Chain-of-Cu | stody is a LEGA | L DOCUMENT | - Complete all rele | evant fie | lds | | The CALLS III O | | | | | | | | | | | ď | | |
| Company Name: | Evergy Kansas Central, I | nc. | | | Contact/Report T | o: Jake Hur | nphrey | | _ | | | 12 | $\mathcal{F}_{\mathcal{F}}}}}}}}}}$ | | i. | (f) | / | T. | h | М | 1 ' | 11 | 7 | 24 | |
| Street Address | 818 S Kansas Avenue T | | 2 | | Phone #: | (913)63/ | 1-0605 | | | | | | | | | | | | | 1 | ge | | | | |
| Street Address. | oto 5 Kalisas Avenae, i | opera, 10 0001 | - | | E-Mail: | iako hur | nabrev@eve | rmu com | | | | 29 | 8. I | 1 (A. | 5 | S | an O | R Cod | e for in | ripotructione | | | | | |
| | | | | | Co E Maile | Jakennur | Npiney@eve | ingy.com | | | | | | | | | | | | | | | | | |
| C | | | | | | skaneye | enaleyalorici | 1.com | | | 2 | <u> </u> | _ | | | | | | | | #*Contai | ner Size: (1) 11. (| 2) 500 ml (3) | 250ml (4 | - |
| Customer Project #: | | | | | | | | | | | | | _ | r | Spec | ity Contain | er Size | | - | | — 125mL, (! | 5) 100mL, (6) 40r | mL vial, (7) En | Core, (8) | , |
| Project Name: | MW-FAA-5 | | | | Invoice Io: | Jeffrey (| enter | | | | 1 | 3 | 2 | 3 | 3 | | | | | | -TerraCore | 2, (9) 90mL, (10) | Other | | |
| | | | | | Invoice E-Mail: | evergya | p@onlinecap | oturecenter.com | ר | | 3 | L | | Ident | ify Con | tainer Pres | ervativ | e ⊤ype* | ** | | *** Prese | rvative Types: (J | 1) None, (2) H | NO3, (3) | |
| Site Collection Info/ | /Facility ID (as applicable): | | | | Purchase Order # | (if WSTR-2 | 000095397 | | | | | 2 | 1 | 1 | 1 | | | | | | MaHSO4, (4 | HCI, (5) NaOH, (8) Sod, Thiosul | , (6) Zn Acetat fate, (9) Ascor | .e, (7) rbic Acid, (| 10) |
| | | | | | applicable): | | | | | | | | | | A | nalysis Req | uested | | | - | MeOH, (J | 1) Other | | | |
| | | | | | Quote #: | | | | | | | | | | | | | | | | Proj | , Mgr: | | 5 | |
| Time Zone Collecter | d: [] AK [] PT [|]MT [X]C | r []E | T | County / State or | igin of sample(| s): Kai | nsas | | | | | | | | | | | | | Alic | e Spiller | | edf | |
| Data Deliverables: | | Regulatory Pro | ogram (DW | /, RCRA, et | c.) as applicable: | Reportab | le []Yes | [X] No | | | | | 5 | | | | | | | | Acct | Num / Client | ID: | entif | |
| []LevelH [] | level III [] Level IV | | - | 1 (0) | | | low | | 74.00 | | | | iii | | <u>.</u> | | | | | | 1 | | | e | |
| | Lecterini [] sector | | RU av []10 | sn (Pre-a | Day []] Day [| 1 Other | DW | PWSID # or WW Pe | rmit # as | applicable | 1 10 | 601 | pa (| | netr | | | | | | es Tabl | e #: | | Uan C | 0 |
| [] EQUIS | | Data Basulta | 5,1,115 | | | 100.00 | Field Filtered | (if applicable): | 1 Yes | [X]No | | 5.1 | 6 | 4 | LI I | | | | | | | ile / Templati | <u>.</u> | | am |
| [] Other | | Requested: | | | | | Analysis: | (in applicable). [| 1103 | | | 24 | liss | S | lect | | | | | | 16 | 500 | - | -1 | es |
| * Matrix Codes (Ins | ert in Matrix box below): Drin | king Water (DW |), Ground \ | Water (GW | /), Waste Water (\ | WW), Product (I | P), Soil/Solid (S | S), Oil (OL), Wipe | (WP), TI | ssue (TS), | Bioassay | 0.8 | | L | 1 4 | | | | | | Prei | og / Bottle Or | d. ID: | | |
| (B), Vapor (V), Surfa | ace Water (SW),Sediment (SEI | D), Sludge (SL), C | aulk (CK), L | eachate (I | L), Biosolid (BS), C | Other (OT) | | | | | | 20 | P. | 0 | <u>∎</u> | | | | | | EZ | 3150860 | | vatio | |
| | Customer Sample ID | | Matrix * | Comp / | Composi | te Start | Collected o | r Composite End | # | Res. C | hlorine | 12 | 0 Q | 0.0 | <u></u> | | | | | | _ | Sample Cr | ommont | eser | |
| | | | | Grab | Date | Time | Date | Time | Cont. | Results | Units | 50 | 25 | 30 | 45 | | | | | | | | Jiiiient | 4 | |
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| Additional Instruct | ions from Pace®: | | | | | Collected By | | lacon [| | anke | | Custo | mer Re | marks / | / Specia | I Condition | s / Pos | sible Ha | azards: | | | | | | _ |
| 200.7 B, Ca, Ba, Be | 2, Cr, PD Ao. Se. Tl | | | | | (Printed Nam | ne) | Jason i | л. ГІ (| diiks | | | | | | | | | | | | | | | |
| 6010 Li | ,, | | | | | Signature: | 0 | Ann P | 20 | aulas | | # Co | olers: | | Therm | ometer ID: | | Correctio | n Factor (° | 'C): (| Obs. Temp. (°(| 2) Correctr | ed Tomp. (°C) | On ic | æ: |
| 245.1 Hg | | | | | | | 10 | nour N. | 7.0 | ~~~~ | - | | | | | | | - | | _ | | 7 | | | _ |
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| Submitting a sample via this chain of custody | constitutes acknowledgment and acceptance of the Pace® | Terms and Conditions found at https://www.pacelabs.com/r | esource-library/resource/pace-terms-and-conditions/ |
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| | Client: EVERON KANJAS (Rht-Al/MC Rrofile/EZ# 315086 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| COC | Matrix | VG9H | DG9H | DG9Q | VG9U | DG9U | DG9M | DG9B | BG1U | AG1H | AG1U | AG2U | AG3S | AG4U | AG5U | JGFU | WGKU | MGDU | BP1U | BP2U | ₿P3U | BP1N | BP3N | BP3F | BP3S | BP3B | BP3Z | WPDU | ZPLC | Other | |
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Container Codes

| Glass | | | | | Plastic | Misc. | | | | | |
|-------|-----------------------------|--|-------------------------------------|------|-------------------------------------|--------|-------------------------------|--|--|--|--|
| DG9B | 40mL bisulfate clear vial | WGKU | 8oz clear soil jar | BP1B | 1L NAOH plastic | 11 | Wipe/Swab | | | | |
| DG9H | 40mL HCI amber voa 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 HCI 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 HCI 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 | preserved clear vial AG2N 500mL HNO3 amber glass | | BP2Z | 500mL NaOH, Zn Acetate | Motrix | | | | | |
| BG1S | 1liter H2SO4 clear glass | AG2S | 500mL H2SO4 amber glass | BP3B | 250mL NaOH plastic | | imatrix | | | | |
| 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 | | | | | | |

BP4N BP4S

WPDU

125mL H2SO4 plastic

16oz unpresserved plstic

Work Order Number:

Q

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Intra-Regional Chain of Custody



| Workorder: 60459930 Workorder Name: MW-FAA-5 | | | | | | | | | Owner Received Date: 9/5/2024 Due Date: 9/19/2024 | | | | | | | |)24 | | | | |
|--|--|----------------|--|---|--------|-------------|------|---------|---|-------------|-------|--------------------|------------------------------------|---------------------|----------------|--------|--------|------|--------|------|--------------|
| Rece | ived at: | | Send To L | ab: | | 1 | | 1.5 | VIV.S. | 1,01 | | Requested Analysis | | | | | | | | | |
| Pace 9608 Lene Pho | e Analytical Kansas 3 Loiret Blvd. exa, KS 66219 ne (913)599-5665 | | Pace Ana 528 N. 9t Salina, K Phone (7 | alytical Salina h Street S 67401 85)827-1273 | | | | | | | C | 0.00 | | | | | | | | | |
| Alice | e Spiller | | | | | F | rese | erved (| Contain | iers | | EFA3 | | | | | | | | | |
| ltem | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Unpreserved | | | | T | | | | | | | | | | | LAB USE ONLY |
| 1 | FAA-5-090424 | PS | 9/4/2024 13:05 | 60459930001 | Water | 1 | | | | | | X | | | | | | | | | |
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| Coo | ler Temperature on R | eceipt / · 9 | °C Cu | stody Seal < | Dor N | 1 | Т | R | eceiv | ed o | on le | ce (| Dor | N | | 1 | Sa | mple | es Int | act | Y of N |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



October 29, 2024

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

RE: Project: JEC FAL CCR MW-FAA-6 Pace Project No.: 60463176

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 2024. 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 alice.spiller@pacelabs.com (913)599-5665 PM Lab Management

Enclosures

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





CERTIFICATIONS

Project: JEC FAL CCR MW-FAA-6

Pace Project No.: 60463176

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



SAMPLE SUMMARY

Project:JEC FAL CCR MW-FAA-6Pace Project No.:60463176

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------------|--------|----------------|----------------|
| 60463176001 | FAA-6-102324 | Water | 10/23/24 10:35 | 10/24/24 00:48 |



SAMPLE ANALYTE COUNT

Project: JEC FAL CCR MW-FAA-6 Pace Project No.: 60463176

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|--------------|-----------|----------|----------------------|------------|
| 60463176001 | FAA-6-102324 | EPA 200.8 | JGP | 2 | PASI-K |

PASI-K = Pace Analytical Services - Kansas City



Project: JEC FAL CCR MW-FAA-6

Pace Project No.: 60463176

Method: EPA 200.8

Description:200.8 MET ICPMSClient:Evergy_Haley & AldrichDate:October 29, 2024

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: 913948

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60463176001

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

- MSD (Lab ID: 3618305)
 - Molybdenum

Additional Comments:

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


ANALYTICAL RESULTS

Project: JEC FAL CCR MW-FAA-6

Pace Project No.: 60463176

| Sample: FAA-6-102324 | Lab ID: 604 | 63176001 | Collected: 10/23/2 | 24 10:35 | Received: 10 | 0/24/24 00:48 | Matrix: Water | | | |
|-------------------------------|-----------------------------|---------------|--------------------|----------|----------------|----------------|---------------|------|--|--|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual | | |
| 200.8 MET ICPMS | Analytical Met | hod: EPA 20 | 0.8 Preparation Me | thod: EP | A 200.8 | | | | | |
| | Pace Analytica | al Services - | Kansas City | | | | | | | |
| Arsenic, Total Recoverable | 0.010 | mg/L | 0.0010 | 1 | 10/25/24 08:15 | 10/29/24 12:50 | 6 7440-38-2 | | | |
| Molybdenum, Total Recoverable | Total Recoverable 0.55 mg/L | | 0.0010 | 1 | 10/25/24 08:15 | 10/29/24 12:5 | 6 7439-98-7 | M1 | | |



QUALITY CONTROL DATA

| Project: Pace Project No.: | JEC FAL CCR MW 60463176 | '-FAA-6 | | | | | | | | | | |
|-------------------------------|----------------------------|--------------|-------|-----------------|-----------|-------------|-------------|------------|------------|-----|-----|------|
| QC Batch: | 913948 | | Anal | ysis Metho | od: I | EPA 200.8 | | | | | | |
| QC Batch Method: | EPA 200.8 | | Anal | , ysis Descr | iption: | 200.8 MET | | | | | | |
| | | | Labo | oratory: | I | Pace Analyt | ical Servic | es - Kansa | s City | | | |
| Associated Lab San | nples: 604631760 | 001 | | | | - | | | · | | | |
| METHOD BLANK: | 3618302 | | | Matrix: V | Vater | | | | | | | |
| Associated Lab San | nples: 604631760 | 001 | | | | | | | | | | |
| | | | Bla | nk | Reporting | | | | | | | |
| Paran | neter | Units | Res | ult | Limit | Analy | /zed | Qualifier | s | | | |
| Arsenic | | mg/L | < | 0.0010 | 0.001 | 0 10/29/24 | 4 12:52 | | | | | |
| Molybdenum | | mg/L | < | 0.0010 | 0.001 | 0 10/29/24 | 4 12:52 | | | | | |
| | NTROL SAMPLE: | 3618303 | | | | | | | | | | |
| | | | Spike | L | CS | LCS | % R | ec | | | | |
| Paran | neter | Units | Conc. | Re | sult | % Rec | Limi | ts o | Qualifiers | | | |
| Arsenic | | mg/L | 0.0 | | 0.039 | 9 | | 85-115 | | _ | | |
| Molybdenum | | mg/L | 0.0 |)4 | 0.039 | 99 | 9 8 | 85-115 | | | | |
| MATRIX SPIKE & M | IATRIX SPIKE DUP | LICATE: 3618 | 304 | | 3618305 | ; | | | | | | |
| | | | MS | MSD | | | | | | | | |
| | | 60463176001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | · Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Arsenic | mg/L | 0.010 | 0.04 | 0.04 | 0.049 | 0.049 | 97 | 97 | 70-130 | 1 | 20 | |
| Molybdenum | mg/L | 0.55 | 0.04 | 0.04 | 0.59 | 0.58 | 80 | 57 | 70-130 | 2 | 20 | M1 |

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



QUALIFIERS

Project: JEC FAL CCR MW-FAA-6

Pace Project No.: 60463176

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:JEC FAL CCR MW-FAA-6Pace Project No.:60463176

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------|-----------------|----------|-------------------|---------------------|
| 60463176001 | FAA-6-102324 | EPA 200.8 | 913948 | EPA 200.8 | 914043 |

| WO# · FOAR |
|---|
| Pace Substance 2 |
| Effective Date: 01/1. |
| Client Name: CILER |
| |
| Tracking #: Pace Shipping Label Used? Yes 7 No |
| Custody Seal on Cooler/Box Present: Yes No L Seals intact: Yes No L |
| Thermometer Used: |
| Cooler Temperature (°C): As read 1. 7 Corr Factor Corrected 1 |
| Temperature should be above freezing to 6°C |
| Chain of Custody present: |
| Chain of Custody relinquished: |
| Samples arrived within holding time: |
| Short Hold Time analyses (<72hr): |
| Rush Turn Around Time requested: |
| Sufficient volume: |
| Correct containers used: |
| Pace containers used: Ves DNo DN/A |
| Containers intact: |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? |
| Filtered volume received for dissolved tests? |
| Sample labels match COC: Date / time / ID / analyses |
| Samples contain multiple phases? Matrix: V-1 □Yes No □N/A |
| Containers requiring pH preservation in compliance? $N_{Yes} \square N_0 \square N/A$ List sample IDs, volumes, lot #'s of preservative and the |
| (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: 0 971/1 |
| Cyanide water sample checks: |
| Lead acetate strip turns dark? (Record only) |
| Potassium lodide test strip turns blue/purple ? (Preserve) |
| Trip Blank present: |
| Headspace in VOA vials (>6mm): |
| Samples from USDA Regulated Area: State: Ves No N/A |
| Additional labels attached to 5035A / TX1005 vials in the field? Ves No N/A |
| Person Contacted: Date/Time: |
| Comments/ Resolution: |
| |
| Project Manager Review: Date: |

| 0 | Pace® Location Reque | stad (City/Sta | tal | | | | | | _ | | | 1 | _ | | | - | - | | | | | | _ | | |
|---------------------------------|-------------------------------|---------------------|-------------|-------------------|---------------------------------------|------------------------------|------------------------|---------------|------------|------------|----------|--|--------------------------|------------------|------------|----------------------------|----------|-----------|-----------|------------|-----------------------------|----------------------|--------------|--|--|
| Base | Pace Analytical Kansas | sted (city/sta | ite). | | CHAIN-OF- | CUSTOD | Analytical (| Ponuost | Doci | imont | | LAB USE ONLY- Affix Workorder/Login Label Here | | | | | | | | | | | 0 | | |
| / Tace | 9608 Loiret Blvd., Lenexa, I | (S 66219 | | | Chain-of-C | | | | | | | | | | | | f 1; | | | | | | | | |
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| Company Name: | Evergy_Haley & Aldrich | | | | Contact/Report | To: Jake Hu | mphrey | | | | | | a d | 10 A | Г. Т | $\mathbf{\mathbf{\nabla}}$ | () | 4 | 6 | < 1 | 16 | | - - | | |
| Street Address: | 818 S Kansas Avenue | | | | Phone #: | (913)63 | 4-0605 | | | | | | | 1.1 | K | C | U - | l | ۲) | / (| 1 4 | | age | | |
| | Topeka, KS 66612 | | | | E-Mail: | jake.hu | mphrey@evergy. | com | | | | | | 中国 | ŝ. | Scar | | code fo | or instru | uctions | • | | à | | |
| | | | | | Cc E-Mail: | skanev | @halevaldrich.co | m | | | | | | | | | | | | 1010110 | | | | | |
| Customer Project #: | | | | | | | - · | | | | | <u> </u> | | | | | | | | 1 | Container Size (1) | 11 (2) 500-1 (2) 2 | F0-1 (4) | | |
| Project Name: | JEC FAL CCR MW-FAA-6 | | | | Invoice To: | leffrey | Cantor | - | | | | | | | specity Co | ontainer : | size ** | | | 12 | .5mL, (5) 100mL, (6) | 40mL vial, (7) EnCr | ore, (8) | | |
| | | | | | Invoice Fo. | Jenney | Center | | | | | 3 | | | | | | | | Ter | rraCore, (9) 90mL, (| 10) Other | | | |
| Site Collection Info/ | Eacility (D (ac applicable)) | | | | | evergya | ap@onlinecapture | ecenter.com | n | | | | | Identify | Containe | r Preserv | ative Ty | pe*** | | ••• | * Preservative Type | s: (1) None, (2) HN(| 03, (3) | | |
| Site conection mor | racinty to (as applicable): | | | | Purchase Order | # (If WSTR-2 | 2000095397 | | | | | 2 | | | | 1 | | - | | H2 | SO4, (4) HCl, (5) Na | OH, (6) Zn Acetate, | (7) | | |
| | | | | | applicable). | | | | | | | | | | Analysi | s Reques | ted | | | Me | eOH, (11) Other | suirate, (9) Ascorbi | c Acid, (10) | | |
| | | | | | Quote #: | | | | | | | | | | | | | | | | Proj. Mgr: | | 1. | | |
| Time Zone Collected | ±; [] AK [] PT [| IMT [X]C | T[]E | T | County / State o | rigin of sample | (s): Kansas | | | | | | | | | | | | | | Alice Spiller | | q Į | | |
| Data Deliverables: | | Regulatory Pr | ogram (DV | , RCRA, et | tc.) as applicable: | Reportal | ole []Yes [X |] No | | | | 1 | | | | | | | | | AcctNum / Clie | nt ID: | tifie | | |
| | avel III [] Level IV | | | | | | | | | | | | | | | | | | | 2 | | | den | | |
| | Levelin [] Leveliv | | Ru | sh (Pre-a | approval requir | ed): | DW PWS | ID # or WW Pe | ermit # as | applicable | 9: | 1 | | | | | | | 1 | 5 | Table #: | | | | |
| []EQUIS | | [] Same Da | ay []1D | aγ [X] 2 | 2 Day [] 3 Day [|] Other | | | _ | | | 0 | | | | | | | | C S | | | e un | | |
| | | Date Results | | | | | Field Filtered (if ap | oplicable): [|] Yes | [X] No | , |] ≥ | | | | | | | | Lab Lab | Profile / Templ | ate: | - Julion | | |
| [] Other | at in Matrix hay belowly Dri- | Requested: | 0.0 | | | | Analysis: | | | | | ₹ | 1 1 | | | | | | 1 1 | | 16500 | | | | |
| (B), Vapor (V), Surfa | ce Water (SW).Sediment (SE |) Sludge (SL) C | aulk (CK) I | water (GM | V), Waste Water (1) Biosolid (BS) | WW), Product (Other (OT) | P), Soil/Solid (SS), O | il (OL), Wipe | (WP), Ti | ssue (TS), | Bioassay | 8.0 | | | | | | | | | Prelog / Bottle | Ord. ID: | | | |
| | | 7, Siddge (SE), C | | Came | Compos | ite Start | Collected as Cos | nnosito End | Î | | | 120 | | | | | | | | | EZ 316604 | 2 | vatio | | |
| C | Sustomer Sample ID | Matrix ⁴ | Grab | Compos | | conected or Cor | nposite End | # | Res. C | hlorine | 2.0 | | | | | | | | | Somolo | Comment | Lesen | | | |
| | | | | | Date | Time | Date | Time | Cont. | Results | Units | 50 | | | | | | | | | Sample | Johnnent | Pre | | |
| | FAA-6-102324 | | WT | Grab | 8 | | 10/23/2024 | 1035 | 1 | - | | X | | | 1 | | | | | | | | | | |
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| Additional Instructio | ons from Pace®: | | | | | Collected By: | | lecen D | | | | Custon | ner Rem | arks / Spe | cial Cond | litions / F | Possible | Hazard | s: | | | | | | |
| | | | | | | (Printed Nam | ne) | Jason R | (. 177 | INKS | | 0.00000.0000 | | | | | | | | | | | | | |
| | | | | | | Signature: | 0 | | 7 | | | # Coo | olers: | The | rmometer | ID: | Correc | tion Fact | or (°C): | Obs. Terr | np. ("C) Corre | cted Temp: (*C) | On Ice: | | |
| | 170410-1010-0.000 | | | | | | yaco | n K. | 720 | inks | | | | T2 | 98 | | -1 | 51 | | 1.7 | 1 1 | 1 | en ice. | | |
| Relinquished by/Compar | ny: (Signature) | Lece | | Date/Time | 4. | | Received by/Company | : (Signature) | | | | - | | Dat | e/Time: | | | <u> </u> | Tr | racking Nu | imber: | 4 | | | |
| Relinguished buller | son K. Franks | 1362 | | | 10/24/2024 / | 1030 | Carme | n Ju | ne | | | | | 1 | 0/2 | 4 1 | 2'0 | 48 | | | | | | | |
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| Submitting a sample via this chain of costody constitutes acknowledgment and acceptance of the Pace® Terms and (| d Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/ |
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ENV-FRM-CORQ-0019_v02_110123 ©

| DC#_Title: ENV-FRM-LENE-0001 v07_Sample Container Count Effective Date: 7/12/2024 Client: Site: | | | | | | | | | | Profile/EZ # | | | | | | | | | | | | Doco 10 of 10 | | | | | | | | | | |
|--|--|--|---|------|------|------|------|------|--|--|--|--|--|--|------------------------|------|---|--|------|--------|-------|---------------|------|------|------|------|------|------|------|-------|--|--|
| OC e Item 1 | Matrix | NG9H | DG9H | De90 | 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 | | |
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| 11 12 ntainer | Codes | | | | | | | | | | | | | | | | | | | | l | | | | | | | | | | | |
| | Glass DG9B 40mL bisulfate clear vial WGKU 8oz clear soil jar DG9H 40mL HCI amber voa vial WGFU 4oz clear soil jar DG9M 40mL McOH clear vial WG2U 2oz clear soil jar DG9Q 40mL TSP amber vial JGFU 4oz unpreserved amber wide DG9S 40mL H2SO4 amber vial AG0U 100mL unores amber glass DG9U 40mL Na Thio amber vial AG1H 1L HCI amber glass DG9U 40mL amber unpreserved AG1S 1L H2SO4 amber glass VG9H 40mL HCI clear vial AG1T 1L Na Thiosulfate clear/amber glass | | | | | | | lass | BP1B BP1N BP1S BP1U BP1Z BP2B BP2N BP2S BP2U | | 1L NA 1L HN 1L H2 1L un 1L Na 500ml 500ml 500ml | Pla OH pla IO3 pla SO4 p presen OH, Zi L NAO L HNO L H2SO | stic astic astic lastic ved pla n Aceta H plas 03 plas 04 plas | astic ate tic tic stic | | | Misc. I Wipe/Swab SP5T 120mL Coliform Na Thiosulfate ZPLC Ziploc Bag AF Air Filter C Air Cassettes R Terracore Kit U Summa Can | | | | | | | | | | | | | | | |
| | VG9U 3G1S 3G1U 3G3H 3G3U WGDU | J | Home indication AGTU Thiter unpresented glass 40mL unpreserved clear vial AG2N 500mL HNO3 amber glass 1liter H2SO4 clear glass AG2S 500mL H2SO4 amber glass 1liter unpres glass AG3S 250mL H2SO4 amber glass 250mL HCL Clear glass AG2U 500mL unpres amber glass 250mL Unpres Clear glass AG3U 250mL unpres amber glass 16oz clear soil jar AG4U 125mL unpres amber glass | | | | | | | BP2Z BP3B BP3F BP3N BP3U BP3U BP3S BP37 | | 500mL unpreserved plastic 500mL NaOH, Zn Acetate 250mL NaOH plastic 250mL HNO3 plastic - field filtered 250mL HNO3 plastic 250mL unpreserved plastic 250mL H2SO4 plastic | | | | | | Matrix WT Water SL Solid NAL Non-aqueous Liquid OL OIL | | | | | | | | | | | | | | |
| | | AG5U 100mL unpres amber glass B B B V V | | | | | | | | BP4U BP4N BP4S WPDU |] | 125ml 125ml 125ml 125ml 16oz u | - INAU - UNDRO - HNO - H2SO INDRES | eserve 3 plast 04 plas served | d plast tic stic | c | | DW | | Drinki | ng Wa | ter | | | | | | | | | | |

Work Order Number: