

**2022 – 2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT**

AREA 2 POND, AREA 3 POND, AND AREA 4 POND
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

by Haley & Aldrich, Inc.
Cleveland, Ohio



for Evergy Kansas Central, Inc.
Topeka, Kansas

File No. 129778-037
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**2022 – 2023 Annual Groundwater Monitoring
and Corrective Action Report**

This Annual Groundwater Monitoring and Corrective Action Report documents the groundwater monitoring program for the Lawrence Energy Center Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, inactive Ash Ponds) consistent with applicable sections of Title 40 Code of Federal Regulations §§ 257.90 through 257.98, and describes activities conducted from July 2022 through June 2023 and documents compliance with the U.S. Environmental Protection Agency Coal Combustion Residual Rule. I certify that the 2022 – 2023 Annual Groundwater Monitoring and Corrective Action Report for the LEC inactive Ash Ponds is, to the best of my knowledge, accurate and complete.

Signed: 
Professional Geologist

Print Name: Mark Nicholls
Kansas License No.: Professional Geologist No. 881
Title: Technical Expert 2
Company: Haley & Aldrich, Inc.

1. Introduction

This 2022 – 2023 Annual Groundwater Monitoring and Corrective Action Report (Annual Report) addresses the Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, inactive Ash Ponds) at the Lawrence Energy Center (LEC), operated by Evergy Kansas Central, Inc. (Evergy). This Annual Report was developed in accordance with the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (Rule) effective October 19, 2015, including subsequent revisions, specifically Title 40 Code of Federal Regulations (40 CFR) § 257.90(e). The Annual Report documents the groundwater monitoring system for the inactive Ash Ponds consistent with applicable sections of § 257.90 through § 257.98, and describes activities conducted in the prior calendar year (July 2022 through June 2023) and documents compliance with the Rule. The specific requirements for the Annual Report listed in § 257.90(e) of the Rule are provided in Sections 1 and 2 of this Annual Report and are in **bold italic font**, followed by a narrative describing how each Rule requirement has been met.

Evergy prepared and placed in the facility's operating record a notification of intent to initiate closure of the inactive Ash Ponds by December 17, 2015. Due to the USEPA Extension of Compliance Deadlines for Certain Inactive Surface Impoundments, Response to Partial Vacatur effective October 4, 2016, in accordance with the requirement under § 257.100(e)(1), the alternative reporting timeframes specified in § 257.100(e)(2) through (6) are applicable for the inactive Ash Ponds.

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 (July 1, 2022), the inactive Ash Ponds were operating under an assessment monitoring program in compliance with 40 CFR § 257.95 for all constituents except arsenic, lithium, and molybdenum. An assessment of corrective measures (CMA) was conducted in accordance with 40 CFR § 257.96 for arsenic, lithium, and molybdenum, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b).

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;

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At the end of the current annual reporting period (June 30, 2023), the inactive Ash Ponds were operating under an assessment monitoring program in compliance with 40 CFR § 257.95 for all constituents except arsenic, lithium, and molybdenum. A CMA was conducted in accordance with 40 CFR § 257.96 for arsenic, lithium, and molybdenum, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b).

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)

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

The inactive Ash Ponds are operating under an assessment monitoring program; therefore, no statistical evaluations were completed on Appendix III constituents from July 2022 through June 2023.

1.1.3.2 40 CFR § 257.90(e)(6)(iii)(b)

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

An assessment monitoring program was initiated on January 13, 2020 for the inactive Ash Ponds with a notification establishing assessment monitoring provided on February 12, 2020 to meet the requirements of 40 CFR § 257.95. The inactive Ash Ponds remained in assessment monitoring from July 2022 through June 2023, with a corrective measures program implemented for arsenic, lithium, and molybdenum in accordance with 40 CFR § 257.96.

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;

Statistically significant levels (SSL) above the groundwater protection standard (GWPS) identified from July 2022 through June 2023 for the March 2022 and September 2022 semi-annual assessment monitoring sampling events are listed in Table I. The statistical evaluation reports for semi-annual assessment monitoring sampling events from March 2022 and September 2022 were completed in July 2022 and February 2023, respectively, and are included as Attachment 1.

**2022 – 2023 Annual Groundwater Monitoring
and Corrective Action Report**

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;

A CMA was initiated on October 12, 2020 for arsenic, lithium, and molybdenum at the inactive Ash Ponds.

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

A public meeting was not held from July 2022 through June 2023. A public meeting to discuss the results of the CMA will be held at least 30 days prior to the selection of remedy in accordance with § 257.96(e).

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.

The CMA was completed on March 11, 2021 for the inactive Ash Ponds.

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

A remedy was not selected during the July 2022 through June 2023 reporting period for arsenic, lithium, and molybdenum at the inactive Ash Ponds.

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 have been initiated from July 2022 through June 2023; therefore, no demonstration or certification is applicable for this unit.

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 257.98, except as provided in paragraph (g) of this section.

Evergy has installed and certified a multi-unit groundwater monitoring system at the LEC inactive Ash Ponds. The inactive Ash Ponds are 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 action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. For purposes of this section, the owner or operator has prepared the annual report when the report is placed in the facility's operating record as required by § 257.105(h)(1).

This Annual Report describes monitoring completed and actions taken for the groundwater monitoring system at the LEC inactive Ash Ponds as required by the Rule. Groundwater sampling and analysis was conducted per 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 the applicable groundwater-related activities completed from July 2022 through June 2023.

2.2.1 Status of the Groundwater Monitoring Program

Appendix IV SSLs were detected above the GWPS for arsenic, lithium, and molybdenum during the March 2020 and September 2020 semi-annual assessment monitoring sampling events. Therefore, a CMA was initiated. The selection of remedy required under § 257.97 was ongoing from July 2022 through June 2023. Evergy is currently implementing an assessment monitoring program for all other constituents.

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2.2.2 Key Actions Completed

The 2021 – 2022 Annual Groundwater Monitoring and Corrective Action Report was completed in July 2022 for the period of July 2021 through June 2022. Statistical evaluation was completed in July 2022 on analytical data from the March 2022 semi-annual assessment monitoring sampling event. The statistical evaluation indicated Appendix IV SSLs above the GWPS for arsenic, lithium, and molybdenum at select downgradient monitoring wells, consistent with previous statistical evaluations.

A semi-annual assessment monitoring sampling event was completed in September 2022 for detected Appendix IV constituents identified from the December 2021 annual assessment monitoring sampling event. Statistical evaluation was completed in January 2023 on analytical data from the September 2022 semi-annual assessment monitoring sampling event.

Pursuant to §257.95(g), groundwater characterization samples were collected in September 2022 and March 2023 to assist in the determination of the nature and extent of Appendix IV SSLs in groundwater wells. Semi-annual status reports for the CMA were completed in September 2022 and March 2023 pursuant to §257.97(a).

An annual assessment monitoring sampling event was completed on December 16, 2022 to identify detected Appendix IV constituents for subsequent semi-annual sampling events in March 2023 and planned for September 2023. Semi-annual assessment monitoring sampling was completed in March 2023 for detected Appendix IV constituents identified during the December 2022 annual monitoring event. Statistical evaluation of the results from the March 2023 semi-annual assessment monitoring sampling event are due to be completed in July 2023 and will be reported in the next annual report.

2.2.3 Problems Encountered

No noteworthy problems (i.e., problems could include damaged wells, issues with sample collection or lack of sampling, or problems with analytical analysis) were encountered at the inactive Ash Ponds from July 2022 through June 2023.

2.2.4 Actions to Resolve Problems

No problems were encountered at the inactive Ash Ponds from July 2022 through June 2023; therefore, no actions to resolve the problems were required.

2.2.5 Project Key Activities for Upcoming Year

Key activities planned for July 2023 through June 2024 include the 2022 – 2023 Annual Groundwater Monitoring and Corrective Action Report, statistical evaluation of semi-annual assessment monitoring analytical data collected in March 2023, semi-annual assessment monitoring and subsequent statistical evaluations, and annual assessment monitoring. The nature and extent investigation will continue into the next calendar year (July 2023 through June 2024). The next semi-annual status report for the CMA is due to be completed in September 2023. Evergy is also continuing to complete additional steps to characterize the nature and extent of arsenic, lithium, and molybdenum in groundwater at the inactive Ash Ponds and is working towards conducting a public meeting and a selection of remedy.

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) – CCR Unit and Monitoring Well Network

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 LEC inactive Ash Ponds is included in this report as Figure 1. A map showing monitoring wells utilized for the nature and extent of the inactive Ash Ponds, are presented in Figure 2.

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 from July 2022 through June 2023.

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 from July 2022 through June 2023. A summary including sample names, dates of sample collection, field parameters, and monitoring data obtained for the groundwater monitoring program for the inactive Ash Ponds is presented in Table II of this report with corresponding laboratory analytical reports provided in Attachment 2. Groundwater potentiometric elevation contour maps, along with calculated groundwater flow rates and directions, associated with each groundwater monitoring sampling event from July 2022 through June 2023 are provided in Figures 3 through 5.

A summary including sample names, dates of sample collection, field parameters, and validated groundwater monitoring data obtained for the nature and extent investigation for the inactive Ash Ponds is provided in Table III of this report, with corresponding laboratory analytical reports provided in Attachment 2.

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 January 13, 2020 with a notification establishing assessment monitoring provided on February 12, 2020 to meet the requirements of 40 CFR § 257.95. A CMA was implemented on October 12, 2020 for arsenic, lithium, and molybdenum in accordance with 40 CFR § 257.96. The inactive Ash Ponds remained in assessment monitoring from July 2022 through June 2023 for all other constituents. Arsenic, lithium, and molybdenum continue to be monitored under the assessment monitoring program in accordance with 40 CFR § 257.96(b).

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 40 CFR §§ 257.90 through 257.95 of the Rule. It is understood that there are supplemental references in 40 CFR §§ 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 from July 2022 through June 2023.

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

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

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

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

The owner or operator may demonstrate that a source other than the CCR unit caused the statistically significant increase over background levels for a constituent or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The owner or operator must complete the written demonstration within 90 days of detecting a statistically significant increase over background levels to include obtaining a certification from a qualified professional engineer or approval from the Participating State Director

or approval from EPA where EPA is the permitting authority verifying the accuracy of the information in the report. If a successful demonstration is completed within the 90-day period, the owner or operator of the CCR unit may continue with a detection monitoring program under this section. If a successful demonstration is not completed within the 90-day period, the owner or operator of the CCR unit must initiate an assessment monitoring program as required under § 257.95. The owner or operator must also include the demonstration in the annual groundwater monitoring and corrective action report required by § 257.90(e), in addition to the certification by a qualified professional engineer or approval from the Participating State Director or approval from EPA where EPA is the permitting authority.

This unit is in assessment monitoring; therefore, no detection monitoring alternate 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 January 13, 2020. Three rounds of assessment monitoring sampling were completed between July 2021 and June 2022. Analytical results for both downgradient and upgradient wells are provided in Table II. The background concentrations (upper tolerance limits) and GWPSs established for detected Appendix IV constituents for the inactive Ash Ponds are included in Tables IV and V. The background concentrations and GWPSs provided in Tables IV and V were utilized for the statistical evaluations completed for the March 2022 and September 2022 semi-annual assessment monitoring sampling events, respectively.

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

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

The inactive Ash Ponds remained in assessment monitoring during July 2022 through June 2023 for all constituents other than arsenic, lithium, and molybdenum, which continue to be monitored under an assessment monitoring program in accordance with 40 CFR § 257.96(b).

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

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

On January 10, 2021, Evergy demonstrated the need for additional time beyond the regulatory timeline period of 90 days to complete the CMA. The Demonstration and Certification of Need for 60-Day Extension was provided in Attachment 2 of the 2020 – 2021 Annual Groundwater Monitoring and Corrective Actions report for the LEC inactive Ash Ponds.

TABLES

TABLE I
STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
MARCH AND SEPTEMBER 2022 SAMPLING EVENTS
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Constituent	Sampling Event	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	March 2022	MW-38	0.010
		MW-39	
		MW-40	
		MW-K	
		MW-L	
	September 2022	MW-38	
		MW-39	
		MW-40	
		MW-K	
		MW-L	
Lithium	March 2022	MW-38	0.040
		MW-40	
		MW-K	
		MW-L	
	September 2022	MW-38	
		MW-40	
		MW-K	
		MW-L	
Molybdenum	March 2022	MW-39	0.152
	September 2022	MW-39	

Notes:

mg/L = milligrams per liter

TABLE II
SUMMARY OF ANALYTICAL RESULTS - ASSESSMENT MONITORING
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Location	Upgradient			Downgradient					
	MW-37			MW-38			MW-39		
Measure Point (TOC)	833.290			832.626			830.615		
Sample Name	MW-37-090722	MW-37-121622	MW-37-031023	MW-38-090722	MW-38-121622	MW-38-031023	MW-39-090722	MW-39-121622	MW-39-031023
Sample Date	9/7/2022	12/16/2022	03/10/2023	9/7/2022	12/16/2022	03/10/2023	9/7/2022	12/16/2022	03/10/2023
Final Lab Report Date	9/23/2022	1/3/2023	3/27/2023	9/23/2022	1/3/2023	3/27/2023	9/23/2022	1/3/2023	3/27/2023
Final Lab Report Revision Date	10/19/2022	1/30/2023	N/A	10/19/2022	1/30/2023	N/A	10/19/2022	1/30/2023	N/A
Final Radiation Lab Report Date	N/A	1/9/2023	4/10/2023	N/A	1/9/2023	4/10/2023	N/A	1/9/2023	4/10/2023
Final Radiation Lab Report Revision Date	N/A	2/2/2023	N/A	N/A	2/2/2023	N/A	N/A	2/2/2023	N/A
Lab Data Reviewed and Accepted	11/4/2022	2/6/2023	5/30/2023	11/4/2022	2/6/2023	5/30/2023	11/4/2022	2/6/2023	5/30/2023
Depth to Water (ft btoc)	14.95	14.75	12.64	17.38	17.38	17.00	16.40	15.98	15.64
Temperature (Deg C)	17.05	11.92	11.65	19.76	10.51	13.22	19.57	12.50	13.41
Conductivity (µS/cm)	1530	1410	1,500	1710	1730	1,860	4100	3790	3,860
Turbidity (NTU)	0.0	6.6	54.2	14.7	6.7	29.5	0.0	2.3	5.4
Boron, Total (mg/L)	1.7	-	1.7	4.2	-	4.4	4.2	-	4.3
Calcium, Total (mg/L)	210	-	230	187	-	204	523	-	534
Chloride (mg/L)	42.4	61.8	50.2	122	106	120	403	497	387
Fluoride (mg/L)	0.20	< 0.20	< 0.20	3.9	3.6	3.3	0.74	0.73	0.50
Sulfate (mg/L)	323	349	290	706	492	595	1840	1790	1,580
pH (su)	7.8	-	7.1	7.8	-	7.6	7.3	-	7.3
TDS (mg/L)	1060	-	1,170	1470	-	2,370	3540	-	3,970
Antimony, Total (mg/L)	-	< 0.0010	-	-	< 0.0010	-	-	< 0.0010	-
Arsenic (mg/L)	0.0062	0.0049	0.0046	0.025	0.020	0.030	0.011	0.010	0.0099
Barium, Total (mg/L)	0.078	0.073	0.081	0.045	0.045	0.051	0.032	0.030	0.031
Beryllium, Total (mg/L)	-	< 0.0010	-	-	< 0.0010	-	-	< 0.0010	-
Cadmium, Total (mg/L)	-	< 0.00050	-	-	< 0.00050	-	-	< 0.00050	-
Chromium, Total (mg/L)	-	< 0.0050	-	-	< 0.0050	-	-	< 0.0050	-
Cobalt, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0011	0.0010
Lead, Total (mg/L)	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Lithium, Total (mg/L)	0.022	0.020	0.024	0.054	0.047	0.054	0.040	0.034	0.039
Molybdenum, Total (mg/L)	0.085	0.084	0.075	0.075	0.059	0.074	0.23	0.27	0.23
Selenium, Total (mg/L)	-	< 0.0010	-	-	< 0.0010	-	-	< 0.0010	-
Thallium, Total (mg/L)	-	< 0.0010	-	-	< 0.0010	-	-	< 0.0010	-
Mercury, Total (mg/L)	-	< 0.00020	-	-	< 0.00020	-	-	< 0.00020	-
Fluoride (mg/L)	0.20	< 0.20	< 0.20	3.9	3.6	3.3	0.74	0.73	0.50
Radium-226 & 228 Combined (pCi/L)	-	0.455 ± 0.633 (1.26)	0.579 ± 0.791 (1.55)	-	0.958 ± 0.722 (1.40)	1.18 ± 0.755 (1.34)	-	0.484 ± 0.689 (1.53)	1.16 ± 0.778 (1.39)

Notes:
Radiological results are presented as activity plus or minus uncertainty with minimum detectable concentration (MDC).
Bold value: Detection above laboratory reporting limit or MDC.
µS/cm = micro Siemens per centimeter
Deg C = degrees Celsius
ft btoc = feet below top of casing
mg/L = milligrams per liter
N/A = Not Applicable
NTU = Nephelometric Turbidity Unit
pCi/L = picoCuries per liter
su = standard unit
TDS = total dissolved solids
TOC = top of casing

TABLE II
SUMMARY OF ANALYTICAL RESULTS - ASSESSMENT MONITORING
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Location	Downgradient (continued)											
	MW-40			MW-K						MW-L		
Measure Point (TOC)	831.358			842.6						843.05		
Sample Name	MW-40-090722	MW-40-121622	MW-40-031023	MW-K-090722	DUP-AP-090722	MW-K-121622	LEC AP-DUP-121622	MW-K-031023	MW-DUP 3 LEC IAP-031023	MW-L-090722	MW-L-121622	MW-L-031023
Sample Date	9/7/2022	12/16/2022	03/10/2023	9/7/2022	9/7/2022	12/16/2022	12/16/2022	03/10/2023	03/10/2023	9/7/2022	12/16/2022	03/10/2023
Final Lab Report Date	9/23/2022	1/3/2023	3/27/2023	9/23/2022	9/23/2022	1/3/2023	1/3/2023	3/27/2023	3/27/2023	9/23/2022	1/3/2023	3/27/2023
Final Lab Report Revision Date	10/19/2022	1/30/2023	N/A	10/19/2022	10/19/2022	1/30/2023	1/30/2023	N/A	N/A	10/19/2022	1/30/2023	N/A
Final Radiation Lab Report Date	N/A	1/9/2023	4/10/2023	N/A	N/A	1/9/2023	1/9/2023	4/10/2023	4/10/2023	N/A	1/9/2023	4/10/2023
Final Radiation Lab Report Revision Date	N/A	2/2/2023	N/A	N/A	N/A	2/2/2023	2/2/2023	N/A	N/A	N/A	2/2/2023	N/A
Lab Data Reviewed and Accepted	11/4/2022	2/6/2023	5/30/2023	11/4/2022	11/4/2022	2/6/2023	2/6/2023	5/30/2023	5/30/2023	11/4/2022	2/6/2023	5/30/2023
Depth to Water (ft btoc)	16.81	16.55	16.11	12.79	-	12.63	-	12.36	-	18.01	17.73	17.30
Temperature (Deg C)	18.49	12.43	14.23	18.75	-	11.06	-	12.20	-	14.69	12.81	14.67
Conductivity (µS/cm)	3340	3030	3,190	2180	-	1940	-	2,120	-	5430	4770	5,040
Turbidity (NTU)	0.0	4.8	4.8	0.0	-	38.5	-	4.8	-	2.6	28.4	18.6
Boron, Total (mg/L)	3.7	-	3.6	2.2	2.2	-	-	2.2	2.2	2.2	-	2.3
Calcium, Total (mg/L)	430	-	452	201	197	-	-	231	226	510	-	533
Chloride (mg/L)	248	306	255	140	134	170	149	164	143	689	1030	608
Fluoride (mg/L)	0.63	0.45	1.1	3.7	3.8	3.5	3.7	3.0	3.0	1.5	2.0	1.8
Sulfate (mg/L)	1600	1690	1,260	609	576	838	539	623	529	1990	2430	1,890
pH (su)	7.6	-	7.3	7.7	7.7	-	-	7.6	7.6	7.7	-	7.2
TDS (mg/L)	2740	-	2,780	1520	1380	-	-	1,690	1,530	4680	-	4,280
Antimony, Total (mg/L)	-	< 0.0010	-	-	-	< 0.0010	< 0.0010	-	-	-	< 0.0010	-
Arsenic (mg/L)	0.014	0.014	0.013	0.16	0.11	0.082	0.081	0.066	0.063	0.024	0.023	0.026
Barium, Total (mg/L)	0.035	0.033	0.034	0.058	0.052	0.046	0.044	0.047	0.047	0.041	0.042	0.042
Beryllium, Total (mg/L)	-	< 0.0010	-	-	-	< 0.0010	< 0.0010	-	-	-	< 0.0010	-
Cadmium, Total (mg/L)	-	< 0.00050	-	-	-	< 0.00050	< 0.00050	-	-	-	< 0.00050	-
Chromium, Total (mg/L)	-	< 0.0050	-	-	-	< 0.0050	< 0.0050	-	-	-	< 0.0050	-
Cobalt, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0010	< 0.0010
Lead, Total (mg/L)	< 0.010	< 0.010	-	< 0.010	< 0.010	< 0.010	< 0.010	-	-	< 0.010	< 0.010	-
Lithium, Total (mg/L)	0.044	0.042	0.045	0.051	0.050	0.045	0.046	0.048	0.050	0.095	0.081	0.085
Molybdenum, Total (mg/L)	0.065	0.067	0.061	0.034	0.034	0.030	0.030	0.029	0.028	0.044	0.046	0.047
Selenium, Total (mg/L)	-	< 0.0010	-	-	-	< 0.0010	< 0.0010	-	-	-	< 0.0010	-
Thallium, Total (mg/L)	-	< 0.0010	-	-	-	< 0.0010	< 0.0010	-	-	-	< 0.0010	-
Mercury, Total (mg/L)	-	< 0.00020	-	-	-	< 0.00020	< 0.00020	-	-	-	< 0.00020	-
Fluoride (mg/L)	0.63	0.45	1.1	3.7	3.8	3.5	3.7	3.0	3.0	1.5	2.0	1.8
Radium-226 & 228 Combined (pCi/L)	-	0.784 ± 0.780 (1.50)	1.55 ± 0.804 (0.912)	-	-	1.19 ± 0.790 (0.984)	1.50 ± 1.02 (1.76)	0.763 ± 0.837 (1.51)	0.519 ± 0.686 (1.04)	-	1.10 ± 0.909 (1.72)	0.575 ± 0.624 (0.901)

Notes:
Radiological results are presented as activity plus or minus uncertainty with minimum detectable concentration (MDC).
Bold value: Detection above laboratory reporting limit or MDC.
µS/cm = micro Siemens per centimeter
Deg C = degrees Celsius
ft btoc = feet below top of casing
mg/L = milligrams per liter
N/A = Not Applicable
NTU = Nephelometric Turbidity Unit
pCi/L = picoCuries per liter
su = standard unit
TDS = total dissolved solids
TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2022 - 2023 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
INACTIVE ASH PONDS
LAWRENCE, KANSAS

Location		Upgradient						Downgradient							
Measure Point (TOC)		MW-37		MW-106		MW-38		MW-39		MW-40		MW-K			
		833.29		877.81		832.63		830.62		831.36		827.49			
Sample Name		MW-37-090722	MW-37-031023	MW-106-090722	MW-106-031025	MW-38-090722	MW-38-031023	MW-39-090722	MW-39-031023	MW-40-090722	MW-40-031023	MW-K-090722	DUP-AP-090722	MW-K-031023	MW-DUP 3 LEC IAP-031023
Sample Date		9/7/2022	3/10/2023	9/7/2022	3/10/2023	9/7/2022	3/10/2023	9/7/2022	3/10/2023	9/7/2022	3/10/2023	9/7/2022	9/7/2022	3/10/2023	3/10/2023
Final Lab Report Date		9/26/2022	3/27/2023	10/4/2022	3/27/2023	9/26/2022	3/27/2023	9/26/2022	3/27/2023	9/26/2022	3/27/2023	9/26/2022	9/26/2022	3/27/2023	3/27/2023
Final Lab Report Revision Date		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Final Radiation Lab Report Date		N/A	4/10/2023	N/A	4/10/2023	N/A	4/10/2023	N/A	4/10/2023	N/A	4/10/2023	N/A	N/A	4/10/2023	4/10/2023
Final Radiation Lab Report Revision Date		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted		11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	11/11/2022	6/16/2023	6/16/2023
Depth to Water (ft btoc)		14.95	13.18	38.31	37.21	17.38	17.07	16.40	15.71	16.81	16.22	12.79	12.79	12.36	12.36
Temperature (Deg C)		17.05	11.65	21.15	9.85	19.76	13.22	19.57	13.41	18.49	14.23	18.75	-	12.2	-
Conductivity (µS/cm)		1530	1500	406	398	1710	1860	4100	3860	3340	3190	2180	-	2120	-
Turbidity (NTU)		0.0	54.2	66.1	68.3	14.7	29.5	0.0	5.4	0.0	4.8	0.0	-	4.8	-
pH, Field (su)		7.37	7.05	6.60	7.79	7.43	7.55	7.15	7.34	7.77	7.39	8.17	-	8.18	-
Dissolved Oxygen, Field (mg/L)		-	0	4.75	1.76	-	0	-	0	-	0	-	-	0	-
Oxygen Reduction Potential, Field (mv)		-	-78	156	132	-	-145	-	-59	-	-149	-	-	-165	-
Ferrous Iron, Field (mg/L)		-	>3.00	0.16	0.07	-	1.92	-	0.74	-	0.89	-	-	2.13	-
Boron, Total (mg/L)		1.7	1.7	< 0.10	< 0.10	4.2	4.4	4.2	4.3	3.7	3.6	2.2	2.2	2.2	2.2
Calcium, Total (mg/L)		210	230	38.8	40.6	187	523	40.6	534	430	452	201	197	231	226
Chloride (mg/L)		42.4	50.2	2.2	2.0	122	120	403	387	248	255	140	134	164	143
Fluoride (mg/L)		0.20	< 0.20	< 0.20	< 0.20	3.9	3.3	0.74	0.50	0.63	1.1	3.7	3.8	3.0	3.0
Sulfate (mg/L)		323	290	4.1	3.6	706	1840	595	1580	1600	1260	609	576	623	529
pH (su)		7.8	7.1	7.3	8.2	7.8	7.6	7.3	7.3	7.6	7.3	7.7	7.7	7.6	7.6
TDS (mg/L)		1060	1170	284	273	1470	2370	3540	3970	2740	2780	1520	1380	1690	1530
Arsenic (mg/L)		0.0062	0.0046	< 0.0010	< 0.0010	0.025	0.030	0.011	0.0099	0.014	0.013	0.16	0.11	0.066	0.063
Barium, Total (mg/L)		0.078	0.081	0.20	0.20	0.045	0.051	0.032	0.031	0.035	0.034	0.058	0.052	0.047	0.047
Cobalt, Total (mg/L)		< 0.0010	< 0.0010	< 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	-	< 0.010	< 0.010	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-	-
Lithium, Total (mg/L)		0.022	0.024	0.013	0.014	0.054	0.054	0.040	0.039	0.044	0.045	0.051	0.050	0.048	0.050
Molybdenum, Total (mg/L)		0.085	0.075	< 0.0010	< 0.0010	0.075	0.074	0.23	0.23	0.065	0.061	0.034	0.034	0.029	0.028
Fluoride (mg/L)		0.20	< 0.20	< 0.20	< 0.20	3.9	3.3	0.74	0.50	0.63	1.1	3.7	3.8	3.0	3.0
Radium-226 & 228 Combined (pCi/L)		-	0.579 ± 0.791 (1.55)	-	0.776 ± 0.620 (1.06)	-	1.18 ± 0.755 (1.34)	-	1.16 ± 0.778 (1.39)	-	1.55 ± 0.804 (0.912)	-	-	0.763 ± 0.837 (1.51)	0.519 ± 0.686 (1.04)
Arsenic, Dissolved (mg/L)		0.0019	0.0034	< 0.0010	< 0.0010	0.014	0.016	0.0055	0.010	0.0033	0.014	0.031	0.044	0.055	0.056
Iron, Dissolved (mg/L)		< 0.050	2.8	< 0.050	< 0.050	0.20	2.0	0.11	0.61	< 0.050	6.5	< 0.050	< 0.050	2.7	2.6
Lithium, Dissolved (mg/L)		0.0216	0.023	0.012	0.014	0.0555	0.055	0.0393	0.036	0.0448	0.042	0.0511	0.0510	0.048	0.052
Manganese, Dissolved (mg/L)		1.3	1.3	< 0.0050	< 0.0050	0.42	0.47	2.8	2.5	2.6	2.6	1.0	1.0	1.2	1.3
Molybdenum, Dissolved (mg/L)		0.089	0.078	< 0.0010	< 0.0010	0.070	0.076	0.24	0.23	0.069	0.064	0.035	0.035	0.029	0.029
Ferrous Iron (mg/L)		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron, Total (mg/L)		3.5	3.8	1.4	1.5	3.3	3.0	0.69	0.60	6.3	6.5	6.6	4.5	3.2	3.7
Magnesium, Total (mg/L)		20.4	22.8	5.9	6.1	62.7	67.8	47.6	43.8	39.8	43.2	66.7	65.4	70.2	70.3
Manganese, Total (mg/L)		1.3	1.3	0.045	0.0540	0.44	0.44	2.9	2.5	2.6	2.6	1.1	1.1	1.2	1.2
Potassium, Total (mg/L)		8.5	8.6	2.1	2.1	22.8	22.1	25.9	24.0	23.4	23.6	30.8	30.4	29.2	29.5
Sodium, Total (mg/L)		73.6	81.3	38.9	41.3	154	171	337	355	237	267	128	122	141	153
Alkalinity, Bicarbonate (mg/L)		441	476	205	209	385	352	168	152	195	185	374	371	401	401
Alkalinity, Carbonate (mg/L)		< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Dissolved Organic Carbon (DOC) (mg/L)		3.8	3.5	6.1	2.5	3.1	1.3	2.6	1.9	1.6	1.6	3.3	3.2	2.8	2.9
Sulfide (mg/L)		< 0.050	< 0.050	0.062	0.059	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total Organic Carbon (TOC) (mg/L)		3.7	3.3	< 1.0	< 1.0	2.5	2.4	1.3	2.2	1.3	2.0	2.4	2.5	3.4	3.2
Hardness, Total (mg/L)		629	676	24.2	25.1	710	785	1540	1480	1240	1320	791	771	835	862

Notes:
Bold value: Detection above laboratory reporting limit or minimum detectable concentration (MDC).
 Radiological results are presented as activity plus or minus uncertainty with MDC.
 µS/cm = micro Siemens per centimeter
 Deg C = degrees Celsius
 ft btoc = feet below top of casing
 mg/L = milligrams per liter
 N/A = Not Applicable
 NTU = Nephelometric Turbidity Unit
 pCi/L = picoCuries per liter
 su = standard unit
 TDS = total dissolved solids
 TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2022 - 2023 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
INACTIVE ASH PONDS
LAWRENCE, KANSAS

Location		Downgradient										
		MW-L		MW-101		MW-102		MW-103		MW-104		
Measure Point (TOC)		832.31		828.65		829.55		829.15		824.81		
Sample Name		MW-L-090722	MWL-L-030723	MW-101-090622	MW-101-030723	MW 102-091222	MW-102-030823	MW-103-090622	MW-103-030823	MW-104-090722	LEC-CMA-DUP02-090722	MW-104-030823
Sample Date		9/7/2022	3/7/2023	9/6/2022	3/7/2023	9/12/2022	3/8/2023	9/6/2022	3/8/2023	9/7/2022	9/7/2022	3/8/2023
Final Lab Report Date		9/26/2022	3/27/2023	10/4/2022	3/24/2023	9/26/2022	3/24/2023	10/4/2022	3/24/2023	10/4/2022	10/4/2022	3/24/2023
Final Lab Report Revision Date		N/A	N/A	N/A	5/1/2023	N/A	5/1/2023	N/A	5/1/2023	N/A	N/A	5/1/2023
Final Radiation Lab Report Date		N/A	4/10/2023	N/A	4/5/2023	N/A	4/5/2023	N/A	4/5/2023	N/A	N/A	4/5/2023
Final Radiation Lab Report Revision Date		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted		11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	11/11/2022	6/16/2023
Depth to Water (ft btoc)		18.01	17.48	13.80	14.10	15.28	15.31	15.05	14.84	10.91	10.91	10.44
Temperature (Deg C)		14.69	14.67	21.42	12.95	22.53	11.95	24.73	10.51	17.66	-	11.05
Conductivity (µS/cm)		5430	5040	838	736	918	845	2300	2100	2320	-	2150
Turbidity (NTU)		2.6	18.6	19.3	0	0	0	70.3	56.2	19.2	-	27.2
pH, Field (su)		7.39	7.42	7.76	7.39	7.74	7.45	7.29	8.05	7.16	-	8.01
Dissolved Oxygen, Field (mg/L)		-	0	0.72	2.41	1.54	2.29	0.12	0	0.04	-	0
Oxygen Reduction Potential, Field (mv)		-	-136	-10	149	12	38	-2	77	174	-	42
Ferrous Iron, Field (mg/L)		-	>3.00	0.18	0.77	0.52	0	0.33	2.35	0.01	-	0
Boron, Total (mg/L)		2.2	2.3	0.23	0.32	0.45	0.42	3.6	4.0	1.6	1.7	1.8
Calcium, Total (mg/L)		510	533	106	97.0	119	117	277	328	292	304	310
Chloride (mg/L)		689	608	41.5	51.1	14.8	17.2	280	195	276	284	193
Fluoride (mg/L)		1.5	1.8	0.74	0.88	1.5	1.6	2.5	0.79	0.42	0.46	0.68
Sulfate (mg/L)		1990	1890	28.6	34.9	69.5	69.0	986	1040	675	733	722
pH (su)		7.7	7.2	7.5	7.7	7.8	7.5	7.6	7.4	7.8	7.8	7.2
TDS (mg/L)		4680	3970	476	475	552	542	2250	1990	1840	1840	1820
Arsenic (mg/L)		0.024	0.026	0.0025	0.0015	0.014	0.011	0.0059	0.0071	< 0.0020	< 0.0020	0.0022
Barium, Total (mg/L)		0.041	0.042	0.17	0.14	0.13	0.12	0.041	0.043	0.040	0.041	0.041
Cobalt, Total (mg/L)		< 0.0020	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.0010	< 0.0020	< 0.0020	< 0.0010
Lead, Total (mg/L)		< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	< 0.010	-
Lithium, Total (mg/L)		0.095	0.085	0.022	0.020	0.031	0.030	0.039	0.044	0.055	0.056	0.057
Molybdenum, Total (mg/L)		0.044	0.047	0.024	0.027	0.040	0.041	0.16	0.20	0.035	0.037	0.050
Fluoride (mg/L)		1.5	1.8	0.74	0.88	1.5	1.6	2.5	0.79	0.42	0.46	0.68
Radium-226 & 228 Combined (pCi/L)		-	0.575 ± 0.624 (0.901)	-	0.547 ± 0.699 (1.53)	-	0.613 ± 0.792 (1.49)	-	0.748 ± 0.846 (1.65)	-	-	1.07 ± 0.995 (1.75)
Arsenic, Dissolved (mg/L)		0.0028	0.023	< 0.0010	< 0.0010	0.0082	0.0060	0.0055	0.0046	0.0032	0.0032	< 0.0010
Iron, Dissolved (mg/L)		< 0.050	7.1	< 0.050	0.48	0.60	0.90	4.8	3.9	5.0	5.0	0.084
Lithium, Dissolved (mg/L)		0.0931	0.076	0.022	0.021	0.029	0.030	0.053	0.042	0.060	0.060	0.058
Manganese, Dissolved (mg/L)		4.7	4.7	0.050	0.18	0.42	0.41	1.9	1.5	1.5	1.5	1.1
Molybdenum, Dissolved (mg/L)		0.045	0.042	0.026	0.025	0.042	0.036	0.21	0.19	0.058	0.057	0.047
Ferrous Iron (mg/L)		0.21	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron, Total (mg/L)		10.7	8.6	2.4	0.87	1.5	1.1	3.4	5.4	1.0	1.1	3.9
Magnesium, Total (mg/L)		165	161	23.2	22.3	31.3	32.5	41.2	51.4	30.0	31.0	32.9
Manganese, Total (mg/L)		5.1	5.4	0.17	0.10	0.43	0.34	1.3	1.8	0.64	0.68	1.6
Potassium, Total (mg/L)		30.4	29.3	6.6	6.2	9.0	8.7	22.2	22.5	48.0	50.4	38.5
Sodium, Total (mg/L)		464	514	14.9	18.9	11.4	10.7	181	240	147	149	177
Alkalinity, Bicarbonate (mg/L)		231	257	320	296	377	377	321	289	435	415	380
Alkalinity, Carbonate (mg/L)		< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Dissolved Organic Carbon (DOC) (mg/L)		2.7	9.6	10.1	2.6	1.5	1.5	4.4	5.6	5.1	2.5	4.9
Sulfide (mg/L)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total Organic Carbon (TOC) (mg/L)		1.8	2.9	2.1	2.1	1.5	1.4	1.8	2.7	2.0	2.0	2.6
Hardness, Total (mg/L)		2000	1990	95.5	91.9	427	134	170	212	124	128	135

Notes:
Bold value: Detection above laboratory reporting limit or minimum detectable concentration (MDC).
 Radiological results are presented as activity plus or minus uncertainty with MDC.
 µS/cm = micro Siemens per centimeter
 Deg C = degrees Celsius
 ft btoc = feet below top of casing
 mg/L = milligrams per liter
 N/A = Not Applicable
 NTU = Nephelometric Turbidity Unit
 pCi/L = picoCuries per liter
 su = standard unit
 TDS = total dissolved solids
 TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2022 - 2023 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
INACTIVE ASH PONDS
LAWRENCE, KANSAS

Location		Downgradient											
Measure Point (TOC)	MW-107			MW-108		MW-109		MW-110		MW-112		MW-113	
	831.10			830.08		829.78		830.54		833.16		831.32	
Sample Name	MW-107-090622	MW-107-030723	DUP 02-LEC PAW-030723	MW-108-090622	MW-108-030723	MW-109-090922	MW-109-030823	MW-110-090922	MW-110-030723	MW-112-090722	MW-112-030723	MW-113-090922	MW-113-030723
Sample Date	9/6/2022	3/7/2023	3/7/2023	9/6/2022	3/7/2023	9/9/2022	3/8/2023	9/9/2022	3/7/2023	9/7/2022	3/7/2023	9/9/2022	3/7/2023
Final Lab Report Date	10/4/2022	3/24/2023	3/24/2023	10/4/2022	3/24/2023	10/4/2022	3/24/2023	10/4/2022	3/24/2023	10/4/2022	3/24/2023	10/4/2022	3/24/2023
Final Lab Report Revision Date	N/A	5/1/2023	5/1/2023	N/A	5/1/2023	N/A	5/1/2023	N/A	5/1/2023	N/A	5/1/2023	N/A	5/1/2023
Final Radiation Lab Report Date	N/A	4/5/2023	4/5/2023	N/A	4/5/2023	N/A	4/5/2023	N/A	4/5/2023	N/A	4/5/2023	N/A	4/5/2023
Final Radiation Lab Report Revision Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted	11/11/2022	6/16/2023	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023
Depth to Water (ft btoc)	15.67	15.58	15.58	14.40	14.18	15.14	14.89	16.10	15.74	18.56	18.17	16.75	16.40
Temperature (Deg C)	22.49	12.77	-	20.98	11.82	21.7	11.45	24.54	12.39	19.52	11.7	23.3	12.58
Conductivity (µS/cm)	846	742	-	870	-	4010	3690	3780	3990	751	735	1360	1380
Turbidity (NTU)	29.8	12.9	-	0	6.5	11.7	19.6	5.3	13.3	7.1	22.2	5.5	11
pH, Field (su)	7.50	8.29	-	7.64	7.52	7.38	7.99	7.3	7.92	7.08	8.16	7.36	8.22
Dissolved Oxygen, Field (mg/L)	0.51	2.34	-	1.14	2.45	0	0	0	3.09	0	0	0.03	2.73
Oxygen Reduction Potential, Field (mv)	-86	156	-	-161	154	-51	41	-153	86	-135	-68	-158	-151
Ferrous Iron, Field (mg/L)	0.52	0	-	0.15	0.06	2.82	2.94	3.00	>3.00	3.00	>3.00	1.47	1.89
Boron, Total (mg/L)	0.13	0.12	0.13	0.20	0.17	5.2	4.8	4.9	4.7	< 0.10	< 0.10	3.8	3.9
Calcium, Total (mg/L)	116	111	111	104	99.7	495	496	469	469	124	116	129	139
Chloride (mg/L)	11.1	8.5	11.6	58.4	51.2	510	414	560	476	69.9	42.6	67.3	78.4
Fluoride (mg/L)	1.3	1.2	1.4	1.5	1.4	2.6	16.5	3.7	1.7	< 0.20	0.30	8.6	6.5
Sulfate (mg/L)	48.1	56.4	49.2	27.6	23.3	1910	1560	2010	1870	50.8	25.6	303	358
pH (su)	7.7	7.2	7.5	7.6	7.1	7.5	7.2	7.2	7.3	7.2	7.4	7.7	7.7
TDS (mg/L)	499	483	456	513	487	3850	3240	3840	3250	497	463	957	971
Arsenic (mg/L)	0.016	0.0057	0.0085	0.0090	0.0022	0.0076	0.0066	0.0034	0.0021	0.0029	0.0020	0.0030	0.0024
Barium, Total (mg/L)	0.17	0.13	0.14	0.25	0.18	0.031	0.029	0.031	0.029	0.26	0.24	0.049	0.046
Cobalt, Total (mg/L)	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0030	< 0.0010	< 0.0030	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Lead, Total (mg/L)	< 0.010	-	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-	< 0.010	-
Lithium, Total (mg/L)	0.023	0.022	0.025	0.018	0.018	0.065	0.064	0.093	0.082	0.016	0.017	0.056	0.056
Molybdenum, Total (mg/L)	0.026	0.021	0.024	0.027	0.026	0.13	0.12	0.13	0.12	0.010	0.0098	0.18	0.17
Fluoride (mg/L)	1.3	1.2	1.4	1.5	1.4	2.6	16.5	3.7	1.7	< 0.20	0.30	8.6	6.5
Radium-226 & 228 Combined (pCi/L)	-	1.92 ± 0.950 (1.22)	0.423 ± 0.667 (1.50)	-	0.703 ± 1.04 (1.96)	-	1.80 ± 1.20 (1.97)	-	1.29 ± 0.982 (1.77)	-	0.784 ± 1.15 (2.24)	-	1.27 ± 0.914 (1.17)
Arsenic, Dissolved (mg/L)	0.0053	0.0023	0.0023	0.0066	0.0016	0.0069	0.0058	0.0031	< 0.0010	0.0018	0.0018	0.0026	0.0022
Iron, Dissolved (mg/L)	0.59	< 0.050	< 0.050	2.3	< 0.050	4.5	4.3	6.6	< 0.050	7.6	7.3	2.6	2.6
Lithium, Dissolved (mg/L)	0.024	0.022	0.023	0.018	0.018	0.067	0.062	0.095	0.087	0.016	0.016	0.059	0.059
Manganese, Dissolved (mg/L)	0.37	0.13	0.14	0.48	0.0087	3.2	3.0	1.6	0.12	1.1	0.97	0.47	0.45
Molybdenum, Dissolved (mg/L)	0.026	0.021	0.021	0.071	0.025	0.12	0.10	0.12	0.10	0.011	0.0092	0.19	0.15
Ferrous Iron (mg/L)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron, Total (mg/L)	3.0	0.75	1.5	3.8	0.34	5.0	4.6	7.0	4.8	9.4	7.6	3.1	2.8
Magnesium, Total (mg/L)	28.4	27.2	30.5	20.6	19.0	125	125	141	139	14.8	14.6	46.2	52.2
Manganese, Total (mg/L)	0.40	0.16	0.39	0.49	0.024	3.3	3.7	1.6	1.4	1.3	1.1	0.52	0.50
Potassium, Total (mg/L)	8.5	8.5	8.3	9.0	8.3	27.6	26.0	31.4	29.6	5.4	5.3	12.7	13.2
Sodium, Total (mg/L)	5.5	5.2	11.2	21.6	21.0	335	350	351	366	12.1	13.4	91.8	109
Alkalinity, Bicarbonate (mg/L)	373	374	379	292	284	157	157	217	195	338	317	338	327
Alkalinity, Carbonate (mg/L)	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Dissolved Organic Carbon (DOC) (mg/L)	6.9	2.5	1.5	7.7	2.7	2.1	3.8	3.8	3.3	5.5	7.7	2.7	3.1
Sulfide (mg/L)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total Organic Carbon (TOC) (mg/L)	1.4	1.4	1.2	2.4	2.3	1.3	2.3	1.7	3.0	2.2	2.2	2.3	2.4
Hardness, Total (mg/L)	117	112	126	84.9	78.2	514	514	579	574	60.9	60.2	190	215

Notes:
Bold value: Detection above laboratory reporting limit or minimum detectable concentration (MDC).
 Radiological results are presented as activity plus or minus uncertainty with MDC.
 µS/cm = micro Siemens per centimeter
 Deg C = degrees Celsius
 ft btoc = feet below top of casing
 mg/L = milligrams per liter
 N/A = Not Applicable
 NTU = Nephelometric Turbidity Unit
 pCi/L = picoCuries per liter
 su = standard unit
 TDS = total dissolved solids
 TOC = top of casing

TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2022 - 2023 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
INACTIVE ASH PONDS
LAWRENCE, KANSAS

Location		Downgradient										
Measure Point (TOC)		MW-A		MW-B		MW-C		MW-D		MW-G	MW-M	
		830.52		830.11		827.63		829.43		843.21	828.93	
Sample Name		MW-A-090722	MW-A-030823	MW-B-090722	MW-B-030823	MW-C-090622	MW-C-031024	MW-D-090722	MW-D-030823	MW-G-090722	MW-M-090622	MW-M-031023
Sample Date		9/7/2022	3/8/2023	9/7/2022	3/8/2023	9/6/2022	3/10/2023	9/7/2022	3/8/2023	9/7/2022	9/6/2022	3/10/2023
Final Lab Report Date		10/4/2022	3/24/2023	10/4/2022	3/24/2023	10/4/2022	3/27/2023	10/4/2022	3/24/2023	10/4/2022	10/4/2022	3/27/2023
Final Lab Report Revision Date		N/A	5/1/2023	N/A	5/1/2023	N/A	N/A	N/A	5/1/2023	N/A	N/A	N/A
Final Radiation Lab Report Date		N/A	4/5/2023	N/A	4/5/2023	N/A	4/10/2023	N/A	4/5/2023	N/A	N/A	4/10/2023
Final Radiation Lab Report Revision Date		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted		11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023	11/11/2022	11/11/2022	6/16/2023
Depth to Water (ft btoc)		15.14	14.95	15.40	15.81	12.40	12.40	13.99	13.47	26.88	14.71	14.39
Temperature (Deg C)		27.46	8.89	19.88	11.77	20.42	10.3	27.27	12.09	24.75	23.16	11.28
Conductivity (µS/cm)		895	982	1110	922	912	1020	1870	2020	1330	1390	857
Turbidity (NTU)		166.0	58	39.2	18.2	38.6	20.1	207	>1000	19.6	233	75.1
pH, Field (su)		6.96	7.81	7.35	7.42	6.86	7.86	6.84	6.98	7.02	7.35	7.65
Dissolved Oxygen, Field (mg/L)		0	0	1.49	1.94	0	0	0.35	0	0.26	0.67	0.42
Oxygen Reduction Potential, Field (mv)		-145	-111	117	123	94	152	-101	-132	-46	139	171
Ferrous Iron, Field (mg/L)		3.00	>3.00	0	0.32	0	0	2.66	>3.00	1.69	0.05	0.18
Boron, Total (mg/L)		0.41	0.40	< 0.10	< 0.10	0.22	0.27	0.47	0.41	1.8	0.64	0.41
Calcium, Total (mg/L)		154	152	190	199	144	165	298	329	183	182	166
Chloride (mg/L)		41.7	39.4	8.8	10.7	18.7	28.9	131	126	23.2	35.4	28.6
Fluoride (mg/L)		< 0.20	< 0.20	< 0.20	0.35	< 0.20	< 0.20	< 0.20	0.25	< 0.20	< 0.20	< 0.20
Sulfate (mg/L)		157	132	84.1	91.1	94.7	96.5	431	438	427	185	126
pH (su)		7.4	7.4	7.6	7.4	7.8	8.2	7.0	7.1	7.2	7.2	8.2
TDS (mg/L)		761	669	761	703	608	641	1460	1470	1010	869	669
Arsenic (mg/L)		0.032	0.0050	0.022	0.0073	0.0040	0.0029	0.0083	0.0080	0.014	0.0078	0.0049
Barium, Total (mg/L)		0.32	0.10	0.74	0.31	0.11	0.11	0.33	0.39	0.045	0.32	0.18
Cobalt, Total (mg/L)		< 0.0010	< 0.0010	0.18	0.030	0.0011	< 0.0010	< 0.0010	< 0.0010	0.0028	0.0056	0.0012
Lead, Total (mg/L)		< 0.010	-	< 0.010	-	< 0.010	< 0.010	< 0.010	-	< 0.010	< 0.010	< 0.010
Lithium, Total (mg/L)		0.012	0.015	0.019	0.022	0.019	0.021	< 0.010	< 0.010	< 0.010	0.024	0.019
Molybdenum, Total (mg/L)		0.018	0.018	0.043	0.014	0.011	0.010	< 0.0010	< 0.0010	0.0045	0.017	0.0097
Fluoride (mg/L)		< 0.20	< 0.20	< 0.20	0.35	< 0.20	< 0.20	< 0.20	0.25	< 0.20	< 0.20	< 0.20
Radium-226 & 228 Combined (pCi/L)		-	2.05 ± 0.946 (0.942)	-	12.7 ± 3.08 (1.66)	-	0.397 ± 0.564 (1.05)	-	1.09 ± 0.805 (0.828)	-	-	0.666 ± 0.625 (0.872)
Arsenic, Dissolved (mg/L)		0.0032	0.0023	0.0057	0.0052	0.0038	0.0028	0.0039	0.0037	0.012	0.0049	0.0042
Iron, Dissolved (mg/L)		5.6	4.6	0.057	< 0.050	< 0.050	0.056	16.6	21.7	2.1	< 0.050	< 0.050
Lithium, Dissolved (mg/L)		0.014	0.014	0.022	0.020	0.018	0.023	< 0.010	< 0.010	< 0.010	0.020	0.017
Manganese, Dissolved (mg/L)		0.98	0.80	0.46	0.44	0.061	0.051	5.1	6.4	0.64	0.0056	0.037
Molybdenum, Dissolved (mg/L)		0.018	0.016	0.0099	0.0072	0.011	0.010	< 0.0010	< 0.0010	0.0048	0.0080	0.0074
Ferrous Iron (mg/L)		0.63	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.52	< 0.20	< 0.20	0.46	< 0.20
Iron, Total (mg/L)		31.2	8.3	3.4	0.41	0.84	< 0.050	26.4	29.2	3.3	5.2	0.87
Magnesium, Total (mg/L)		22.6	23.8	17.8	19.0	14.8	18.9	47.0	54.5	25.0	23.4	19.5
Manganese, Total (mg/L)		1.3	0.94	18.6	3.8	0.17	0.0267	5.2	7.6	0.66	3.5	0.958
Potassium, Total (mg/L)		5.2	5.7	7.6	7.7	5.9	6.0	8.7	7.5	8.2	7.7	6.5
Sodium, Total (mg/L)		33.5	35.0	3.6	4.5	21.4	31.5	26.8	28.9	76.3	33.4	24.4
Alkalinity, Bicarbonate (mg/L)		391	380	466	455	347	393	450	512	329	419	405
Alkalinity, Carbonate (mg/L)		< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Dissolved Organic Carbon (DOC) (mg/L)		2.2	2.0	2.9	1.5	1.7	1.5	3.9	4.7	11.5	4.7	1.5
Sulfide (mg/L)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.14	< 0.050
Total Organic Carbon (TOC) (mg/L)		3.0	1.6	1.7	1.4	1.4	1.2	3.6	4.2	3.0	2.2	1.3
Hardness, Total (mg/L)		92.9	97.9	73.4	78.4	60.9	78.0	194	225	103	96.4	80.4

Notes:
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 µS/cm = micro Siemens per centimeter
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TABLE III

SUMMARY OF ANALYTICAL RESULTS: 2022 - 2023 NATURE AND EXTENT MONITORING

EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
INACTIVE ASH PONDS
LAWRENCE, KANSAS

Location		Downgradient							
Measure Point (TOC)		MW-N 826.81				MW-O 830.32		MW-P 829.63	
Sample Name		MW-N-090622	LEC-CMA-DUP01-090622	MW-N-030723	DUP 01-LEC PAW-030723	MW-O-090722	MW-O-030723	MW-P-090622	MW-P-030823
Sample Date		9/6/2022	9/6/2022	3/7/2023	3/7/2023	9/7/2022	3/7/2023	9/6/2022	3/8/2023
Final Lab Report Date		10/4/2022	10/4/2022	3/24/2023	3/24/2023	10/4/2022	3/24/2023	10/4/2022	3/24/2023
Final Lab Report Revision Date		N/A	N/A	5/1/2023	5/1/2023	N/A	5/1/2023	N/A	5/1/2023
Final Radiation Lab Report Date		N/A	N/A	4/5/2023	4/5/2023	N/A	4/5/2023	N/A	4/5/2023
Final Radiation Lab Report Revision Date		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lab Data Reviewed and Accepted		11/11/2022	11/11/2022	6/16/2023	6/16/2023	11/11/2022	6/16/2023	11/11/2022	6/16/2023
Depth to Water (ft btoc)		12.00	12.00	11.75	11.75	15.95	15.51	15.63	15.29
Temperature (Deg C)		21.88	-	12.62	-	18.52	12.44	20.2	12.26
Conductivity (µS/cm)		1110	-	984	-	4470	2310	1530	1250
Turbidity (NTU)		219	-	315	-	5.9	11.2	8.9	47.4
pH, Field (su)		7.70	-	7.36	-	7.28	7.38	7.04	7.84
Dissolved Oxygen, Field (mg/L)		0.38	-	0	-	0	1.41	0.31	0
Oxygen Reduction Potential, Field (mv)		-161	-	-7	-	-178	-111	51	56
Ferrous Iron, Field (mg/L)		1.25	-	>3.00	-	3.00	1.45	3.00	0.76
Boron, Total (mg/L)		0.72	0.76	0.71	0.72	2.7	2.7	1.0	0.93
Calcium, Total (mg/L)		122	126	111	111	490	458	215	205
Chloride (mg/L)		28.4	29.5	36.6	36.3	729	496	55.1	46.6
Fluoride (mg/L)		3.7	3.7	3.2	3.2	3.0	1.9	2.1	1.5
Sulfate (mg/L)		89.2	93.3	82.5	82.3	2170	1700	411	244
pH (su)		7.9	7.8	7.7	7.6	7.8	7.4	7.5	7.1
TDS (mg/L)		643	647	587	656	4300	2690	1060	928
Arsenic (mg/L)		0.080	0.093	0.089	0.042	0.015	0.020	0.0037	0.0048
Barium, Total (mg/L)		0.43	0.42	0.29	0.20	0.046	0.055	0.061	0.075
Cobalt, Total (mg/L)		0.0054	0.0051	< 0.0010	< 0.0010	< 0.0020	< 0.0010	0.0026	0.0036
Lead, Total (mg/L)		0.019	0.017	-	-	< 0.010	-	< 0.010	-
Lithium, Total (mg/L)		0.057	0.057	0.045	0.046	0.094	0.077	0.029	0.031
Molybdenum, Total (mg/L)		0.034	0.035	0.032	0.033	0.064	0.070	0.030	0.033
Fluoride (mg/L)		3.7	3.7	3.2	3.2	3.0	1.9	2.1	1.5
Radium-226 & 228 Combined (pCi/L)		-	-	4.12 ± 1.77 (2.32)	2.99 ± 1.31 (1.74)	-	0.887 ± 1.10 (2.26)	-	1.46 ± 0.932 (1.58)
Arsenic, Dissolved (mg/L)		0.011	0.011	0.0053	0.0051	0.015	0.016	0.0018	0.0018
Iron, Dissolved (mg/L)		1.3	1.4	0.31	0.30	8.3	9.4	0.053	< 0.050
Lithium, Dissolved (mg/L)		0.047	0.047	0.046	0.044	0.096	0.093	0.030	0.031
Manganese, Dissolved (mg/L)		0.38	0.39	0.36	0.38	1.8	2.2	1.9	1.0
Molybdenum, Dissolved (mg/L)		0.038	0.038	0.032	0.030	0.068	0.060	0.034	0.028
Ferrous Iron (mg/L)		1.8	2.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Iron, Total (mg/L)		34.1	31.7	19.7	9.4	9.2	9.1	1.3	1.7
Magnesium, Total (mg/L)		48.8	48.3	44.9	45.4	158	140	37.1	41.2
Manganese, Total (mg/L)		0.59	0.64	0.67	0.44	1.8	2.5	2.6	2.8
Potassium, Total (mg/L)		19.1	18.8	16.7	16.7	29.8	24.8	12.9	14.2
Sodium, Total (mg/L)		27.3	28.5	30.7	31.4	419	372	47.4	43.9
Alkalinity, Bicarbonate (mg/L)		438	432	414	418	231	249	431	432
Alkalinity, Carbonate (mg/L)		< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
Dissolved Organic Carbon (DOC) (mg/L)		8.0	5.9	2.0	2.3	2.6	4.6	9.0	2.6
Sulfide (mg/L)		0.54	0.41	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Total Organic Carbon (TOC) (mg/L)		3.1	2.5	2.6	2.1	1.9	3.4	2.2	2.0
Hardness, Total (mg/L)		201	199	185	187	651	576	153	170

Notes:
Bold value: Detection above laboratory reporting limit or minimum detectable concentration (MDC).
 Radiological results are presented as activity plus or minus uncertainty with MDC.
 µS/cm = micro Siemens per centimeter
 Deg C = degrees Celsius
 ft btoc = feet below top of casing
 mg/L = milligrams per liter
 N/A = Not Applicable
 NTU = Nephelometric Turbidity Unit
 pCi/L = picoCuries per liter
 su = standard unit
 TDS = total dissolved solids
 TOC = top of casing

TABLE IV
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
MARCH 2022 SAMPLING EVENT
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Well Number	Background Value ^{1,2}	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-37 (upgradient)	0.00881	NA
MW-38		0.010
MW-39		0.010
MW-40		0.010
MW-K		0.010
MW-L		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-37 (upgradient)	0.0804	NA
MW-38		2
MW-39		2
MW-40		2
MW-K		2
MW-L		2
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-37 (upgradient)	0.001 ³	NA
MW-38		0.006
MW-39		0.006
MW-40		0.006
MW-K		0.006
MW-L		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-37 (upgradient)	0.449	NA
MW-38	5.500	5.5
MW-39		4.0
MW-40		4.0
MW-K		4.0
MW-L		4.0
CCR Appendix-IV Lead, Total (mg/L)		
MW-37 (upgradient)	0.010	NA
MW-38		0.015
MW-39		0.015
MW-40		0.015
MW-K		0.015
MW-L		0.015
CCR Appendix-IV Lithium, Total (mg/L)		
MW-37 (upgradient)	0.0269	NA
MW-38		0.040
MW-39		0.040
MW-40		0.040
MW-K		0.040
MW-L		0.040
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-37 (upgradient)	0.152	NA
MW-38		0.152
MW-39		0.152
MW-40		0.152
MW-K		0.152
MW-L		0.152

Notes:

¹ Interwell background data collected from 03/07/2018 through 03/15/2022, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 12/01/2020.

³ Interwell background data collected from 03/07/2018 through 9/16/2021.

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

mg/L = milligrams per liter

NA = Not Applicable

TABLE V
ASSESSMENT GROUNDWATER MONITORING - DETECTED APPENDIX IV GWPS
SEPTEMBER 2022 SAMPLING EVENT
EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

Well Number	Background Value ^{1,2}	GWPS
CCR Appendix-IV Arsenic, Total (mg/L)		
MW-37 (upgradient)	0.00881	NA
MW-38		0.010
MW-39		0.010
MW-40		0.010
MW-K		0.010
MW-L		0.010
CCR Appendix-IV Barium, Total (mg/L)		
MW-37 (upgradient)	0.0804	NA
MW-38		2
MW-39		2
MW-40		2
MW-K		2
MW-L		2
CCR Appendix-IV Cobalt, Total (mg/L)		
MW-37 (upgradient)	0.001 ³	NA
MW-38		0.006
MW-39		0.006
MW-40		0.006
MW-K		0.006
MW-L		0.006
CCR Appendix-IV Fluoride, Total (mg/L)		
MW-37 (upgradient)	0.449	NA
MW-38	5.500	5.5
MW-39		4.0
MW-40		4.0
MW-K		4.0
MW-L		4.0
CCR Appendix-IV Lead, Total (mg/L)		
MW-37 (upgradient)	0.010	NA
MW-38		0.015
MW-39		0.015
MW-40		0.015
MW-K		0.015
MW-L		0.015
CCR Appendix-IV Lithium, Total (mg/L)		
MW-37 (upgradient)	0.0269	NA
MW-38		0.040
MW-39		0.040
MW-40		0.040
MW-K		0.040
MW-L		0.040
CCR Appendix-IV Molybdenum, Total (mg/L)		
MW-37 (upgradient)	0.152	NA
MW-38		0.152
MW-39		0.152
MW-40		0.152
MW-K		0.152
MW-L		0.152

Notes:

¹ Interwell background data collected from 03/07/2018 through 03/15/2022, unless otherwise noted.

² Intra-well background data collected from 03/07/2018 through 03/15/2022.

³ Interwell background data collected from 03/07/2018 through 9/16/2021.

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard



mg/L = milligrams per liter

NA = Not Applicable

FIGURES

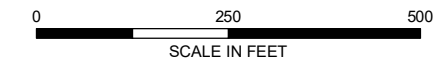


LEGEND

-  COAL COMBUSTION RESIDUAL (CCR) MONITORING WELL
-  ASH POND (INACTIVE)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCE: NEARMAP, 18 MAY 2023

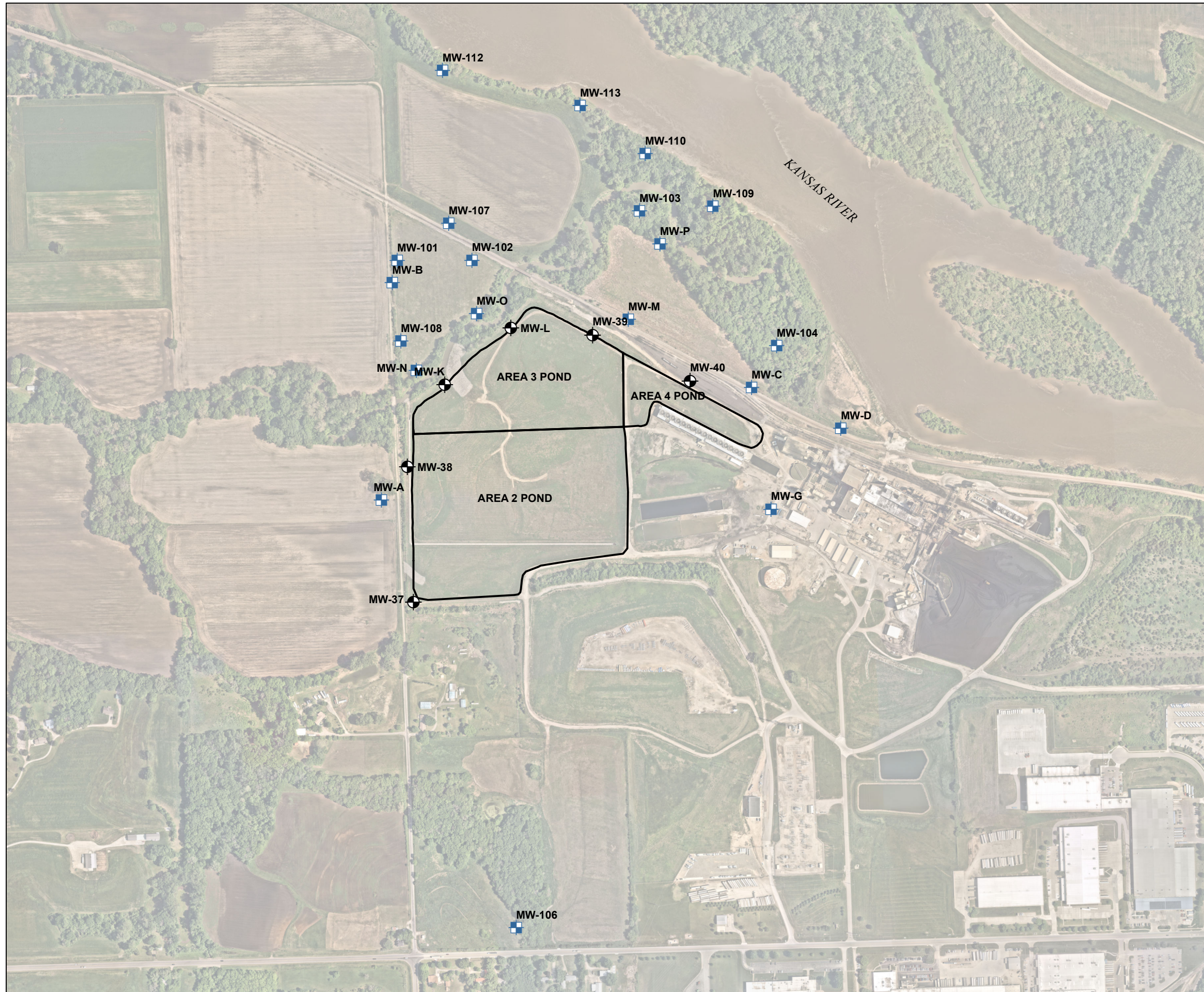


EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS




**ASH PONDS (INACTIVE)
CCR COMPLIANCE MONITORING
WELL LOCATION MAP**



JULY 2023

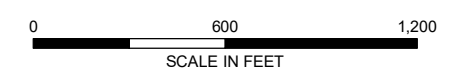


LEGEND

-  COAL COMBUSTION RESIDUAL (CCR) MONITORING WELL
-  NATURE & EXTENT MONITORING WELL
-  ASH POND (INACTIVE)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE MAP SOURCE: NEARMAP, 18 MAY 2023



EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

**ASH PONDS (INACTIVE)
NATURE AND EXTENT
MONITORING WELL
LOCATION MAP**



JULY 2023

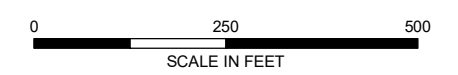


LEGEND

- WELL NAME AND **GROUNDWATER ELEVATION** IN FEET ABOVE MEAN SEA LEVEL (AMSL)
- GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR**, 2-FT INTERVAL (AMSL)
- GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE** (FEET/YEAR)
- ASH POND (INACTIVE)**

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED 7 SEPTEMBER 2022.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 7 SEPTEMBER 2022 AND THE CONDUCTIVITY VALUES OBTAINED FROM PUBLISHED SOURCES AND GROUNDWATER ELEVATION DATA MEASURED BETWEEN MARCH 2018 AND JANUARY 2019.
4. AERIAL IMAGERY SOURCE: NEARMAP, 18 MAY 2023



EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

**ASH PONDS (INACTIVE)
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
SEPTEMBER 7 2022**



JULY 2023

FIGURE 3



LEGEND

- WELL NAME AND **GROUNDWATER ELEVATION** IN FEET ABOVE MEAN SEA LEVEL (AMSL)
- GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, 2-FT INTERVAL (AMSL)**
- GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)**
- ASH POND (INACTIVE)**

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED 16 DECEMBER 2022.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 16 DECEMBER 2022 AND THE CONDUCTIVITY VALUES OBTAINED FROM PUBLISHED SOURCES AND GROUNDWATER ELEVATION DATA MEASURED BETWEEN MARCH 2018 AND JANUARY 2019.
4. AERIAL IMAGERY SOURCE: NEARMAP, 18 MAY 2023



EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

**ASH PONDS (INACTIVE)
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
DECEMBER 16, 2022**



JULY 2023

FIGURE 4



LEGEND

- WELL NAME AND **GROUNDWATER ELEVATION** IN FEET ABOVE MEAN SEA LEVEL (AMSL)
- GROUNDWATER POTENTIOMETRIC OBSERVATION ELEVATION CONTOUR, 2-FT INTERVAL (AMSL)
- GROUNDWATER FLOW DIRECTION AND APPROXIMATE GROUNDWATER FLOW RATE (FEET/YEAR)
- ASH POND (INACTIVE)

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GROUNDWATER POTENTIOMETRIC ELEVATIONS WERE MEASURED 10 MARCH 2023.
3. THE GROUNDWATER FLOW RATE WAS APPROXIMATED USING THE HYDRAULIC GRADIENT CALCULATED FROM GROUNDWATER POTENTIOMETRIC ELEVATIONS MEASURED 10 MARCH 2023 AND THE CONDUCTIVITY VALUES OBTAINED FROM PUBLISHED SOURCES AND GROUNDWATER ELEVATION DATA MEASURED BETWEEN MARCH 2018 AND JANUARY 2019.
4. AERIAL IMAGERY SOURCE: NEARMAP, 18 MAY 2023



EVERGY KANSAS CENTRAL, INC.
LAWRENCE ENERGY CENTER
LAWRENCE, KANSAS

**ASH PONDS (INACTIVE)
GROUNDWATER POTENTIOMETRIC
ELEVATION CONTOUR MAP
MARCH 10 2023**



JULY 2023

ATTACHMENT 1
Statistical Analyses

Attachment 1-1
March 2022 Semi-Annual Groundwater Assessment
Monitoring Data Statistical Evaluation



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

TECHNICAL MEMORANDUM

July 31, 2023
File No. 129778-037

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., Senior Associate – Senior Hydrogeologist

SUBJECT: March 2022 Semi-Annual Groundwater Assessment Monitoring Data
Statistical Evaluation
Completed July 18, 2022
Lawrence Energy Center
Area 2 Pond, Area 3 Pond, and Area 4 Pond (inactive)

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 2022** semi-annual assessment monitoring groundwater sampling event for the Lawrence Energy Center (LEC) Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, inactive Ash Ponds). This semi-annual assessment monitoring groundwater sampling event was completed on **March 15, 2022**, with laboratory results received and validated on **April 27, 2022**.

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 statistically significant levels (SSL) above the groundwater protection standard (GWPS) consistent with the requirements of the Rule. GWPSs 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 July 14, 2020. 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 (UTLs), and a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling event from each compliance well was compared to the corresponding background UTL to determine if an SSL existed.

STATISTICAL EVALUATION

Either an interwell or intrawell evaluation was used to determine SSIs. 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 its own historical data. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) semi-annual assessment monitoring data.

The parametric TL methods were 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 2022** 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.

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample location MW-37 (for interwell evaluation) were combined 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. Per the document, *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 2022** (interwell evaluation), except for cobalt, which was updated through **September 2021**. Background concentrations were updated through **December 2020** for intrawell evaluation.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **March 2022** semi-annual assessment monitoring event were compared to their respective background UTLs and GWPSs (Table I). A sample concentration greater than the background UTL is considered to represent an SSI. A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events, statistical evaluations, and associated alternative source demonstrations, an intrawell comparison is utilized for MW-38 for fluoride statistical evaluations. Interwell comparisons are being utilized for all other well and constituent evaluations. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation on groundwater sampling data collected in March 2022, the SSLs above GWPS for the LEC inactive Ash Ponds are listed in Table II.** All detected SSLs are consistent with previously identified SSLs at the LEC inactive Ash Ponds, with the addition of lithium at MW-39.

Enclosures:

- Table I – Summary of Semi-Annual Assessment Groundwater Monitoring Statistical Evaluation
- Table II – Statistically Significant Levels of Appendix IV Constituents

TABLES

TABLE I
SUMMARY OF SEMI-ANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
MARCH 2022 SAMPLING EVENT
LAWRENCE ENERGY CENTER
ASH PONDS (INACTIVE)

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL or CFR § 257.95(h)(2)*	Report Result Unit	MCL Comparison		Outlier Presence	Outlier Removed	Trend	Distribution Well	March 2022 Concentration (mg/L)	Interwell Analysis		Intrawell Analysis		Groundwater Protection Standard		
										Number of Detection Exceedances	Number of Non-Detection Exceedances						Upper Tolerance Limit (UTL) (mg/L) ¹	SSI (exceedance above Background at Individual Well)	Background Limit (Upper Prediction Limit) ²	SSI (exceedance above Background at Individual Well)	GWPS (Higher of MCL/ 40 CFR § 257.95(h)(2) or UTL) mg/L	SSL	
CCR Appendix-IV: Arsenic, Total (mg/L)																							
MW-37	16/16	0%	-	0.0089	2.172E-06	0.001474	0.2396	0.01	mg/L	0	0	No	No	Stable	Normal		0.00881					0.010	
MW-38	16/16	0%	-	0.037	0.00004225	0.0065	0.3688	0.01	mg/L	16	0	Yes	No	Increasing	Non-parametric	0.019		Yes					Yes
MW-39	16/16	0%	-	0.014	1.529E-06	0.001237	0.1025	0.01	mg/L	15	0	No	No	Stable	Normal	0.011		Yes					Yes
MW-40	16/16	0%	-	0.027	0.00001053	0.003246	0.2164	0.01	mg/L	16	0	Yes	No	Stable	Non-parametric	0.014		Yes					Yes
MW-K	16/16	0%	-	0.1	0.00007446	0.008629	0.12	0.01	mg/L	16	0	No	No	Stable	Normal	0.10		Yes					Yes
MW-L	16/16	0%	-	0.029	5.583E-06	0.002363	0.09694	0.01	mg/L	16	0	No	No	Increasing	Normal	0.025		Yes					Yes
CCR Appendix-IV: Barium, Total (mg/L)																							
MW-37	16/16	0%	-	0.079	0.0001232	0.0111	0.1838	2	mg/L	0	0	No	No	Increasing	Normal		0.0804					2	
MW-38	16/16	0%	-	0.046	0.00001918	0.00438	0.1229	2	mg/L	0	0	No	No	Stable	Normal	0.037		No					No
MW-39	16/16	0%	-	0.034	1.983E-06	0.001408	0.04418	2	mg/L	0	0	No	No	Stable	Normal	0.032		No					No
MW-40	16/16	0%	-	0.039	4.363E-06	0.002089	0.06087	2	mg/L	0	0	No	No	Stable	Normal	0.034		No					No
MW-K	16/16	0%	-	0.052	0.00001603	0.004004	0.09721	2	mg/L	0	0	No	No	Stable	Normal	0.039		No					No
MW-L	16/16	0%	-	0.094	0.0002999	0.01732	0.3589	2	mg/L	0	0	No	No	Stable	Normal	0.033		No					No
CCR Appendix-IV: Cobalt, Total (mg/L)																							
MW-37	0/14	100%	0.001-0.001	-	0	0	0	0.006	mg/L	0	0	NA	NA	NA	NA		0.001 ³					0.006	
MW-38	0/14	100%	0.001-0.001	-	0	0	0	0.006	mg/L	0	0	NA	NA	NA	NA	< 0.0010		No					No
MW-39	10/14	29%	0.001-0.003	0.0016	2.715E-07	0.000521	0.3986	0.006	mg/L	0	0	No	No	Stable	Normal	0.0011		Yes					No
MW-40	0/14	100%	0.001-0.002	-	7.143E-08	0.0002673	0.2494	0.006	mg/L	0	0	NA	NA	NA	NA	< 0.0010		No					No
MW-K	6/14	57%	0.001-0.002	0.0028	2.735E-07	0.0005229	0.3874	0.006	mg/L	0	0	No	No	NA	Normal	< 0.0010		No					No
MW-L	0/14	100%	0.001-0.003	-	2.857E-07	0.0005345	0.4677	0.006	mg/L	0	0	NA	NA	NA	NA	< 0.0010		No					No
CCR Appendix-IV: Fluoride (mg/L)																							
MW-37	13/17	24%	0.2-0.2	0.44	0.006018	0.07758	0.2507	4	mg/L	0	0	No	No	Decreasing	Normal		0.449					4.0	
MW-38	17/17	0%	-	5.5	0.8685	0.9319	0.2104	4	mg/L	12	0	Yes	No	Decreasing	Non-parametric	4.0			5.500	No		5.5	No
MW-39	16/17	6%	0.2-0.2	3.5	0.8299	0.911	0.4076	4	mg/L	0	0	Yes	No	Stable	Normal	1.1		Yes					No
MW-40	15/17	12%	0.2-0.2	2.1	0.3192	0.565	0.4172	4	mg/L	0	0	Yes	No	Decreasing	Normal	0.79		Yes					No
MW-K	17/17	0%	-	3.8	0.5253	0.7248	0.234	4	mg/L	0	0	Yes	No	Stable	Non-parametric	3.8		Yes					No
MW-L	15/17	12%	0.2-0.2	3	0.5263	0.7255	0.394	4	mg/L	0	0	Yes	No	Stable	Non-parametric	< 0.20		No					No
CCR Appendix-IV: Lead, Total (mg/L)																							
MW-37	0/12	100%	0.01-0.01	-	5.914E-20	2.432E-10	2.432E-08	0.015	mg/L	0	0	NA	NA	NA	NA		0.010					0.015	
MW-38	0/12	100%	0.01-0.01	-	5.914E-20	2.432E-10	2.432E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No					No
MW-39	0/12	100%	0.01-0.01	-	5.914E-20	2.432E-10	2.432E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No					No
MW-40	0/12	100%	0.01-0.01	-	5.914E-20	2.432E-10	2.432E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No					No
MW-K	0/12	100%	0.01-0.01	-	5.914E-20	2.432E-10	2.432E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No					No
MW-L	1/12	92%	0.01-0.01	0.011	8.333E-08	0.0002887	0.02863	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No					No
CCR Appendix-IV: Lithium, Total (mg/L)																							
MW-37	15/16	6%	0.03-0.03	0.026	0.00002623	0.005121	0.2896	0.04	mg/L	0	0	No	No	Increasing	Normal		0.0269					0.040	
MW-38	17/17	0%	-	0.084	0.00007931	0.008906	0.1238	0.04	mg/L	17	0	No	No	Stable	Normal	0.056		Yes					Yes
MW-39	17/17	0%	-	0.062	0.00005681	0.007537	0.1755	0.04	mg/L	10	0	Yes	No	Stable	Normal	0.037		Yes					No
MW-40	16/16	0%	-	0.056	0.00002836	0.005326	0.1166	0.04	mg/L	14	0	No	No	Decreasing	Normal	0.042		Yes					Yes
MW-K	16/16	0%	-	0.089	0.0001578	0.01256	0.1792	0.04	mg/L	16	0	No	No	Increasing	Normal	0.049		Yes					Yes
MW-L	16/16	0%	-	0.092	0.0001907	0.01381	0.2458	0.04	mg/L	15	0	No	No	Increasing	Normal	0.052		Yes					Yes
CCR Appendix-IV: Molybdenum, Total (mg/L)																							
MW-37	16/16	0%	-	0.14	0.0002978	0.01726	0.1425	0.1	mg/L	13	0	No	No	Decreasing	Normal		0.152					0.152	
MW-38	16/16	0%	-	0.1	0.0001667	0.01291	0.1555	0.1	mg/L	1	0	No	No	Decreasing	Normal	0.078		No					No
MW-39	17/17	0%	-	0.23	0.002577	0.05076	0.3124	0.1	mg/L	15	0	No	No	Increasing	Normal	0.22		Yes					Yes
MW-40	16/16	0%	-	0.19	0.001879	0.04334	0.385	0.1	mg/L	8	0	Yes	No	Decreasing	Normal	0.071		No					No
MW-K	16/16	0%	-	0.04	0.00008705	0.00933	0.3812	0.1	mg/L	0	0	No	No	Decreasing	Normal	0.040		No					No
MW-L	16/16	0%	-	0.055	0.00003156	0.005618	0.1257	0.1	mg/L	0	0	No	No	Increasing	Normal	0.044		No					No

Notes:

¹ Interwell background data collected from 03/07/2018 through 03/15/2022, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 12/01/2020.

³ Interwell background data collected from 03/07/2018 through 9/16/2021.

⁴ Due to analytical dilution factors, laboratory reporting limits were above the upper tolerance limit for cobalt.

* 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 = picroCuries per Liter

RSL = regional screening level

SSI = statistically significant increase

SSL = statistically significant level

TABLE II
 STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
 MARCH 2022 SAMPLING EVENT
 LAWRENCE ENERGY CENTER
 INACTIVE ASH PONDS

Constituent	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	MW-38	0.010
	MW-39	
	MW-40	
	MW-K	
	MW-L	
Lithium	MW-38	0.040
	MW-40	
	MW-K	
	MW-L	
Molybdenum	MW-39	0.152

Notes:

mg/L = milligrams per liter

Attachment 1-2
September 2022 Semi-Annual Groundwater Assessment
Monitoring Data Statistical Evaluation



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

TECHNICAL MEMORANDUM

July 31, 2023
File No. 129778-037

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., Senior Associate – Senior Hydrogeologist

SUBJECT: September 2022 Semi-Annual Groundwater Assessment Monitoring Data
Statistical Evaluation
Completed February 1, 2023
Lawrence Energy Center
Area 2 Pond, Area 3 Pond, and Area 4 Pond (inactive)

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 2022** semi-annual assessment monitoring groundwater sampling event for the Lawrence Energy Center (LEC) Area 2 Pond (inactive), Area 3 Pond (inactive), and Area 4 Pond (inactive; collectively, inactive Ash Ponds). This semi-annual assessment monitoring groundwater sampling event was completed on **September 7, 2022**, with laboratory results received and validated on **November 4, 2022**.

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 statistically significant levels (SSL) above the groundwater protection standard (GWPS) consistent with the requirements of the Rule. GWPSs 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 July 14, 2020. 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 (UTLs), and a minimum 95 percent confidence coefficient and 95 percent coverage. The most recent groundwater sampling event from each compliance well was compared to the corresponding background UTL to determine if an SSL existed.

STATISTICAL EVALUATION

Either an interwell or intrawell evaluation was used to determine SSIs. 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 its own historical data. Because the CCR unit has transitioned into assessment monitoring, no statistical evaluations were conducted on Appendix III (detection monitoring) semi-annual 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 2022** sampling event was above the GWPS, the lower confidence limit (LCL) for the downgradient well constituent will be used to evaluate if an SSI is present. The LCL is the lower end of the confidence interval range, which is an estimated concentration range intended to contain the true mean or median of the population from which the sample is drawn. The confidence interval range is designed to locate the true population mean or median with a high degree of statistical confidence, or conversely, with a low probability of error.

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

BACKGROUND DISTRIBUTIONS

The groundwater analytical results for each sampling event from the background sample location MW-37 (for interwell evaluation) were combined 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. Per the document, *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 2022** (interwell evaluation), except for cobalt, which was updated through **September 2021**. Background concentrations were updated through **March 2022** for intrawell evaluation.

RESULTS OF APPENDIX IV DOWNGRADIENT STATISTICAL COMPARISONS

The sample concentrations from the downgradient wells for each of the detected Appendix IV constituents from the **September 2022** semi-annual assessment monitoring event were compared to their respective background UTLs and GWPSs (Table I). A sample concentration greater than the background UTL is considered to represent an SSI. A sample concentration greater than the GWPS is considered to represent an SSL. Based on previous compliance sampling events, statistical evaluations, and associated alternative source demonstrations, an intrawell comparison is utilized for MW-38 for fluoride statistical evaluations. Interwell comparisons are being utilized for all other well and constituent evaluations. The results of the groundwater assessment monitoring statistical evaluation are provided in Table I. **Based on this statistical evaluation on groundwater sampling data collected in September 2022, the SSLs above GWPS for the LEC inactive Ash Ponds are listed in Table II.** All detected SSLs are consistent with previously identified SSLs at the LEC inactive Ash Ponds.

Enclosures:

- Table I – Summary of Semi-Annual Assessment Groundwater Monitoring Statistical Evaluation
- Table II – Statistically Significant Levels of Appendix IV Constituents

TABLES

TABLE I
SUMMARY OF SEMI-ANNUAL ASSESSMENT GROUNDWATER MONITORING STATISTICAL EVALUATION
 SEPTEMBER 2022 SAMPLING EVENT
 LAWRENCE ENERGY CENTER
 ASH PONDS (INACTIVE)

Location Id	Frequency of Detection	Percent Non-Detects	Range of Non-Detect	Maximum Detect	Variance	Standard Deviation	Coefficient of Variance	CCR MCL or CFR § 257.95(h)(2)*	Report Result Unit	MCL Comparison		Outlier Presence	Outlier Removed	Trend	Distribution Well	September 2022 Concentration (mg/L)	Interwell Analysis		Intrawell Analysis		Groundwater Protection Standard	
										Number of Detection Exceedances	Number of Non-Detection Exceedances						Upper Tolerance Limit (UTL) (mg/L) ¹	SSI (Exceedance above Background at Individual Well)	Background Limit (Upper Prediction Limit) ²	SSI (Exceedance above Background at Individual Well)	GWPS (Higher of MCL/ 40 CFR § 257.95(h)(2) or UTL) mg/L	SSL
CCR Appendix-IV: Arsenic, Total (mg/L)																						
MW-37	17/17	0%	-	0.0089	2.036E-06	0.001427	0.2319	0.01	mg/L	0	0	No	No	Stable	Normal		0.00881				0.010	
MW-38	17/17	0%	-	0.037	0.00004281	0.006543	0.3623	0.01	mg/L	17	0	Yes	No	Increasing	Non-parametric	0.025		Yes				Yes
MW-39	17/17	0%	-	0.014	0.0000015	0.001225	0.1021	0.01	mg/L	16	0	No	No	Stable	Normal	0.011		Yes				Yes
MW-40	17/17	0%	-	0.027	9.934E-06	0.003152	0.2109	0.01	mg/L	17	0	Yes	No	Stable	Non-parametric	0.014		Yes				Yes
MW-K	17/17	0%	-	0.16	0.000526	0.02293	0.2974	0.01	mg/L	17	0	Yes	No	Stable	Non-parametric	0.16		Yes				Yes
MW-L	17/17	0%	-	0.029	5.243E-06	0.00229	0.09402	0.01	mg/L	17	0	No	No	Increasing	Normal	0.024		Yes				Yes
CCR Appendix-IV: Barium, Total (mg/L)																						
MW-37	17/17	0%	-	0.079	0.0001338	0.01157	0.1883	2	mg/L	0	0	No	No	Increasing	Normal		0.0804				2	
MW-38	17/17	0%	-	0.046	0.00002315	0.004812	0.133	2	mg/L	0	0	No	No	Stable	Normal	0.045		No				No
MW-39	17/17	0%	-	0.034	0.00000186	0.001364	0.04278	2	mg/L	0	0	No	No	Stable	Normal	0.032		No				No
MW-40	17/17	0%	-	0.039	4.118E-06	0.002029	0.05907	2	mg/L	0	0	No	No	Increasing	Normal	0.035		No				No
MW-K	17/17	0%	-	0.058	0.00003165	0.005626	0.1334	2	mg/L	0	0	Yes	No	Decreasing	Normal	0.058		No				No
MW-L	17/17	0%	-	0.094	0.0002843	0.01686	0.3526	2	mg/L	0	0	Yes	No	Decreasing	Normal	0.041		No				No
CCR Appendix-IV: Cobalt, Total (mg/L)																						
MW-37	0/15	100%	0.001-0.001	-	0	0	0	0.006	mg/L	0	0	NA	NA	NA	NA		0.001 ³				0.006	
MW-38	0/15	100%	0.001-0.001	-	0	0	0	0.006	mg/L	0	0	NA	NA	NA	NA	< 0.0010		No				No
MW-39	10/15	33%	0.001-0.003	0.0016	2.841E-07	0.000533	0.3938	0.006	mg/L	0	0	Yes	No	Stable	Normal	< 0.0020		Yes				No
MW-40	0/15	100%	0.001-0.002	-	6.667E-08	0.0002582	0.2421	0.006	mg/L	0	0	NA	NA	NA	NA	< 0.0010		No				No
MW-K	6/15	60%	0.001-0.002	0.0028	2.621E-07	0.000512	0.3859	0.006	mg/L	0	0	No	No	Decreasing	Normal	< 0.0010		No				No
MW-L	0/15	100%	0.001-0.003	-	3.143E-07	0.0005606	0.4672	0.006	mg/L	0	0	NA	NA	NA	NA	< 0.0020		No				No
CCR Appendix-IV: Fluoride (mg/L)																						
MW-37	14/18	22%	0.2-0.2	0.44	0.006329	0.07956	0.2623	4	mg/L	0	0	No	No	Decreasing	Normal		0.449				4.0	
MW-38	18/18	0%	-	5.5	0.8329	0.9127	0.2074	4	mg/L	12	0	Yes	No	Decreasing	Non-parametric	3.9			5.500	No		5.5
MW-39	17/18	6%	0.2-0.2	3.5	0.9053	0.9515	0.4421	4	mg/L	0	0	Yes	No	Decreasing	Normal	0.74		Yes				No
MW-40	16/18	11%	0.2-0.2	2.1	0.3296	0.5741	0.4369	4	mg/L	0	0	No	No	Decreasing	Normal	0.63		Yes				No
MW-K	18/18	0%	-	3.8	0.5146	0.7174	0.2291	4	mg/L	0	0	Yes	No	Stable	Non-parametric	3.7		Yes				No
MW-L	16/18	11%	0.2-0.2	3	0.5018	0.7084	0.3888	4	mg/L	0	0	No	No	Stable	Non-parametric	1.50		Yes				No
CCR Appendix-IV: Lead, Total (mg/L)																						
MW-37	0/13	100%	0.01-0.01	-	7.228E-20	2.688E-10	2.688E-08	0.015	mg/L	0	0	NA	NA	NA	NA		0.010				0.015	
MW-38	0/13	100%	0.01-0.01	-	7.228E-20	2.688E-10	2.688E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No				No
MW-39	0/13	100%	0.01-0.01	-	7.228E-20	2.688E-10	2.688E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No				No
MW-40	0/13	100%	0.01-0.01	-	7.228E-20	2.688E-10	2.688E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No				No
MW-K	0/13	100%	0.01-0.01	-	7.228E-20	2.688E-10	2.688E-08	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No				No
MW-L	1/13	92%	0.01-0.01	0.011	7.692E-08	0.0002774	0.02752	0.015	mg/L	0	0	NA	NA	NA	NA	< 0.010		No				No
CCR Appendix-IV: Lithium, Total (mg/L)																						
MW-37	16/17	6%	0.03-0.03	0.026	0.00002568	0.005068	0.2825	0.04	mg/L	0	0	No	No	Increasing	Normal		0.0269				0.040	
MW-38	17/17	0%	-	0.084	0.00009253	0.009619	0.1356	0.04	mg/L	18	0	No	No	Decreasing	Non-parametric	0.054		Yes				Yes
MW-39	17/17	0%	-	0.062	0.00005395	0.007345	0.1717	0.04	mg/L	10	0	Yes	No	Decreasing	Normal	0.040		Yes				No
MW-40	17/17	0%	-	0.056	0.00002676	0.005173	0.1135	0.04	mg/L	15	0	No	No	Decreasing	Normal	0.044		Yes				Yes
MW-K	17/17	0%	-	0.089	0.0001695	0.01302	0.1887	0.04	mg/L	17	0	No	No	Stable	Normal	0.051		Yes				Yes
MW-L	17/17	0%	-	0.095	0.0002674	0.01635	0.2797	0.04	mg/L	16	0	No	No	Increasing	Normal	0.095		Yes				Yes
CCR Appendix-IV: Molybdenum, Total (mg/L)																						
MW-37	17/17	0%	-	0.14	0.0003557	0.01886	0.1586	0.1	mg/L	13	0	No	No	Decreasing	Normal		0.152				0.152	
MW-38	17/17	0%	-	0.1	0.00016	0.01265	0.1533	0.1	mg/L	1	0	No	No	Decreasing	Normal	0.075		No				No
MW-39	18/18	0%	-	0.23	0.002678	0.05175	0.3114	0.1	mg/L	16	0	No	No	Increasing	Normal	0.23		Yes				Yes
MW-40	17/17	0%	-	0.19	0.001894	0.04352	0.3965	0.1	mg/L	8	0	No	No	Decreasing	Normal	0.065		No				No
MW-K	17/17	0%	-	0.04	0.00008695	0.009324	0.3725	0.1	mg/L	0	0	No	No	Stable	Normal	0.034		No				No
MW-L	17/17	0%	-	0.055	0.00002962	0.005442	0.1219	0.1	mg/L	0	0	No	No	Stable	Normal	0.044		No				No

Notes:

¹ Interwell background data collected from 03/07/2018 through 03/15/2022, unless otherwise noted.

² Intrawell background data collected from 03/07/2018 through 03/15/2022.

³ Interwell background data collected from 03/07/2018 through 9/16/2021.

⁴ Due to analytical dilution factors, laboratory reporting limits were above the upper tolerance limit for cobalt.

* 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

RSL = regional screening level

SSI = statistically significant increase

SSL = statistically significant level

TABLE II
STATISTICALLY SIGNIFICANT LEVELS OF APPENDIX IV CONSTITUENTS
 SEPTEMBER 2022 SAMPLING EVENT
 LAWRENCE ENERGY CENTER
 INACTIVE ASH PONDS

Constituent	Well ID	Groundwater Protection Standard (mg/L)
Arsenic	MW-38	0.010
	MW-39	
	MW-40	
	MW-K	
	MW-L	
Lithium	MW-38	0.040
	MW-40	
	MW-K	
	MW-L	
Molybdenum	MW-39	0.152

Notes:

mg/L = milligrams per liter

ATTACHMENT 2
Laboratory Analytical Reports

Attachment 2-1
September 2022 Semi-Annual Sampling Event
Laboratory Analytical Reports

October 19, 2022

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

RE: Project: LEC INACTIVE ASH PONDS CCR
Pace Project No.: 60410030

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2022. 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 10/14/22

REVISED 10/19/22 repackaged

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60410030001	MW-37-090722	Water	09/07/22 09:20	09/09/22 17:00
60410030002	MW-38-090722	Water	09/07/22 14:45	09/09/22 17:00
60410030003	MW-39-090722	Water	09/07/22 15:25	09/09/22 17:00
60410030004	MW-40-090722	Water	09/07/22 10:20	09/09/22 17:00
60410030005	MW-K-090722	Water	09/07/22 13:20	09/09/22 17:00
60410030006	MW-L-090722	Water	09/07/22 10:55	09/09/22 17:00
60410030007	DUP-AP-090722	Water	09/07/22 13:25	09/09/22 17:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410030001	MW-37-090722	EPA 200.7	MRV	4	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
60410030002	MW-38-090722	EPA 200.7	MRV	4	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
60410030003	MW-39-090722	EPA 200.7	MRV	4	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
60410030004	MW-40-090722	EPA 200.7	MRV	4	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
60410030005	MW-K-090722	EPA 200.7	MRV	4	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
60410030006	MW-L-090722	EPA 200.7	MRV	4	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
60410030007	DUP-AP-090722	EPA 200.7	MRV	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Date: October 19, 2022

Amended to report data from reanalysis of fluoride by 300.0 per client request.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: October 19, 2022

General Information:

7 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: 807547

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 6041000001,60410030001

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

- MS (Lab ID: 3212528)
 - Calcium
- MSD (Lab ID: 3212529)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: October 19, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: October 19, 2022

General Information:

7 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:

Analyte Comments:

QC Batch: 807548

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-39-090722 (Lab ID: 60410030003)
 - Cobalt, Total Recoverable
- MW-L-090722 (Lab ID: 60410030006)
 - Cobalt, Total Recoverable

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: October 19, 2022

General Information:

7 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: 807697

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

- DUP (Lab ID: 3213114)
- Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: October 19, 2022

General Information:

7 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.

- DUP-AP-090722 (Lab ID: 60410030007)
- MW-37-090722 (Lab ID: 60410030001)
- MW-38-090722 (Lab ID: 60410030002)
- MW-39-090722 (Lab ID: 60410030003)
- MW-40-090722 (Lab ID: 60410030004)
- MW-K-090722 (Lab ID: 60410030005)
- MW-L-090722 (Lab ID: 60410030006)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: October 19, 2022

General Information:

7 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.

H1: Analysis conducted outside the EPA method holding time.

- DUP-AP-090722 (Lab ID: 60410030007)
- MW-K-090722 (Lab ID: 60410030005)

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: 808515

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410000004,60410030004

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

- MS (Lab ID: 3216066)
 - Chloride
- MSD (Lab ID: 3216067)
 - Chloride

Additional Comments:

Analyte Comments:

QC Batch: 808515

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

- MS (Lab ID: 3216066)
 - Chloride
- MS (Lab ID: 3216068)
 - Sulfate
- MSD (Lab ID: 3216067)
 - Chloride

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: MW-37-090722	Lab ID: 60410030001	Collected: 09/07/22 09:20	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.078	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:26	7440-39-3	
Boron, Total Recoverable	1.7	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:26	7440-42-8	
Calcium, Total Recoverable	210	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:26	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:26	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.022	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:11	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0062	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:18	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:18	7440-48-4	
Molybdenum, Total Recoverable	0.085	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:18	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1060	mg/L	13.3	1		09/14/22 15:45		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:19		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	42.4	mg/L	10.0	10		09/20/22 16:56	16887-00-6	
Fluoride	0.20	mg/L	0.20	1		10/05/22 19:14	16984-48-8	
Sulfate	323	mg/L	50.0	50		09/20/22 17:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: MW-38-090722	Lab ID: 60410030002	Collected: 09/07/22 14:45		Received: 09/09/22 17:00		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.045	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:30	7440-39-3	
Boron, Total Recoverable	4.2	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:30	7440-42-8	
Calcium, Total Recoverable	187	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:30	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:30	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.054	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:13	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.025	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:22	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:22	7440-48-4	
Molybdenum, Total Recoverable	0.075	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:22	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1470	mg/L	13.3	1		09/14/22 15:45		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:20		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	122	mg/L	10.0	10		09/20/22 17:59	16887-00-6	
Fluoride	3.9	mg/L	0.20	1		10/05/22 19:27	16984-48-8	
Sulfate	706	mg/L	50.0	50		09/20/22 18:11	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: MW-39-090722	Lab ID: 60410030003	Collected: 09/07/22 15:25	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.032	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:38	7440-39-3	
Boron, Total Recoverable	4.2	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:38	7440-42-8	
Calcium, Total Recoverable	523	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:38	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:38	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.040	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:15	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.011	mg/L	0.0020	2	09/14/22 09:42	09/22/22 20:26	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:42	09/22/22 20:26	7440-48-4	D3
Molybdenum, Total Recoverable	0.23	mg/L	0.0020	2	09/14/22 09:42	09/22/22 20:26	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3540	mg/L	100	1		09/14/22 15:45		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/16/22 11:53		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	403	mg/L	50.0	50		09/20/22 18:49	16887-00-6	
Fluoride	0.74	mg/L	0.20	1		10/05/22 19:39	16984-48-8	
Sulfate	1840	mg/L	100	100		09/21/22 17:18	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: MW-40-090722	Lab ID: 60410030004	Collected: 09/07/22 10:20	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.035	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:40	7440-39-3	
Boron, Total Recoverable	3.7	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:40	7440-42-8	
Calcium, Total Recoverable	430	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:40	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:40	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.044	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:17	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.014	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:39	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:39	7440-48-4	
Molybdenum, Total Recoverable	0.065	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:39	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2740	mg/L	66.7	1		09/14/22 15:46		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/14/22 12:20		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	248	mg/L	50.0	50		09/20/22 19:52	16887-00-6	
Fluoride	0.63	mg/L	0.20	1		10/05/22 19:52	16984-48-8	
Sulfate	1600	mg/L	100	100		09/21/22 17:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: MW-K-090722	Lab ID: 60410030005	Collected: 09/07/22 13:20	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.058	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:42	7440-39-3	
Boron, Total Recoverable	2.2	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:42	7440-42-8	
Calcium, Total Recoverable	201	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:42	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:42	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.051	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:19	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.16	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:47	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:47	7440-48-4	
Molybdenum, Total Recoverable	0.034	mg/L	0.0010	1	09/14/22 09:42	09/22/22 20:47	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1520	mg/L	20.0	1		09/14/22 15:46		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/14/22 12:20		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	140	mg/L	10.0	10		09/20/22 20:55	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		10/12/22 08:49	16984-48-8	H1
Sulfate	609	mg/L	50.0	50		09/20/22 21:08	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: MW-L-090722	Lab ID: 60410030006	Collected: 09/07/22 10:55	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.041	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:44	7440-39-3	
Boron, Total Recoverable	2.2	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:44	7440-42-8	
Calcium, Total Recoverable	510	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:44	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:44	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.095	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:27	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.024	mg/L	0.0020	2	09/14/22 09:42	09/22/22 20:56	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:42	09/22/22 20:56	7440-48-4	D3
Molybdenum, Total Recoverable	0.044	mg/L	0.0020	2	09/14/22 09:42	09/22/22 20:56	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	4680	mg/L	125	1		09/14/22 15:46		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/14/22 12:20		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	689	mg/L	50.0	50		09/20/22 21:46	16887-00-6	
Fluoride	1.5	mg/L	0.20	1		10/05/22 20:17	16984-48-8	
Sulfate	1990	mg/L	100	100		09/21/22 18:21	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Sample: DUP-AP-090722	Lab ID: 60410030007	Collected: 09/07/22 13:25	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.052	mg/L	0.0050	1	09/14/22 09:42	09/19/22 11:46	7440-39-3	
Boron, Total Recoverable	2.2	mg/L	0.10	1	09/14/22 09:42	09/19/22 11:46	7440-42-8	
Calcium, Total Recoverable	197	mg/L	0.20	1	09/14/22 09:42	09/19/22 11:46	7440-70-2	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:42	09/19/22 11:46	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.050	mg/L	0.010	1	09/14/22 09:42	09/19/22 12:29	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.11	mg/L	0.0010	1	09/14/22 09:42	09/22/22 21:04	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:42	09/22/22 21:04	7440-48-4	
Molybdenum, Total Recoverable	0.034	mg/L	0.0010	1	09/14/22 09:42	09/22/22 21:04	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1380	mg/L	20.0	1		09/14/22 15:46		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/14/22 12:20		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	134	mg/L	10.0	10		09/20/22 22:11	16887-00-6	
Fluoride	3.8	mg/L	0.20	1		10/12/22 09:27	16984-48-8	H1
Sulfate	576	mg/L	50.0	50		09/20/22 22:23	14808-79-8	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch:	807547	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

METHOD BLANK:	3212526	Matrix:	Water
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Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/19/22 10:56	
Boron	mg/L	<0.10	0.10	09/19/22 10:56	
Calcium	mg/L	<0.20	0.20	09/19/22 10:56	
Lead	mg/L	<0.010	0.010	09/19/22 10:56	

LABORATORY CONTROL SAMPLE: 3212527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	100	85-115	
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	9.6	96	85-115	
Lead	mg/L	1	1.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212528 3212529

Parameter	Units	60410000001		MS		MSD		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result					
Barium	mg/L	0.039	1	1	1.0	1.0	97	101	70-130	4	20	
Boron	mg/L	1.1	1	1	1.9	2.0	87	92	70-130	3	20	
Calcium	mg/L	170	10	10	169	175	-6	45	70-130	3	20 M1	
Lead	mg/L	<0.010	1	1	0.97	1.0	97	100	70-130	2	20	

MATRIX SPIKE SAMPLE: 3212530

Parameter	Units	60410030001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.078	1	1.1	101	70-130	
Boron	mg/L	1.7	1	2.6	93	70-130	
Calcium	mg/L	210	10	217	75	70-130	
Lead	mg/L	<0.010	1	1.0	100	70-130	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch:	807548	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: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

METHOD BLANK:	3212534	Matrix:	Water
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Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/22/22 19:29	
Cobalt	mg/L	<0.0010	0.0010	09/22/22 19:29	
Molybdenum	mg/L	<0.0010	0.0010	09/22/22 19:29	

LABORATORY CONTROL SAMPLE: 3212535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.040	100	85-115	
Cobalt	mg/L	0.04	0.040	99	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212536 3212537

Parameter	Units	60410001001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.0010	0.04	0.04	0.040	0.040	99	98	70-130	0	20	
Cobalt	mg/L	<0.0010	0.04	0.04	0.039	0.039	97	97	70-130	0	20	
Molybdenum	mg/L	0.0082	0.04	0.04	0.052	0.052	109	109	70-130	0	20	

MATRIX SPIKE SAMPLE: 3212538

Parameter	Units	60410030007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.11	0.04	0.15	88	70-130	
Cobalt	mg/L	<0.0010	0.04	0.038	94	70-130	
Molybdenum	mg/L	0.034	0.04	0.077	109	70-130	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch:	807549	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

METHOD BLANK: 3212539 Matrix: Water
Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/19/22 11:51	

LABORATORY CONTROL SAMPLE: 3212540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212541 3212542

Parameter	Units	60410001002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.023	1	1	1.1	1.1	105	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch:	807697	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030001, 60410030002, 60410030003

METHOD BLANK: 3213111 Matrix: Water

Associated Lab Samples: 60410030001, 60410030002, 60410030003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/14/22 15:43	

LABORATORY CONTROL SAMPLE: 3213112

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

SAMPLE DUPLICATE: 3213113

Parameter	Units	60410032003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	608	610	0	10	

SAMPLE DUPLICATE: 3213114

Parameter	Units	60409784004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	409	972	81	10	D6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch:	807698	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030004, 60410030005, 60410030006, 60410030007

METHOD BLANK: 3213115 Matrix: Water
Associated Lab Samples: 60410030004, 60410030005, 60410030006, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/14/22 15:45	

LABORATORY CONTROL SAMPLE: 3213116

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

SAMPLE DUPLICATE: 3213117

Parameter	Units	60410030004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2740	2650	3	10	

SAMPLE DUPLICATE: 3213118

Parameter	Units	60410032013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	284	288	1	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch: 807538

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030001, 60410030002, 60410030004, 60410030005, 60410030006, 60410030007

SAMPLE DUPLICATE: 3212481

Parameter	Units	60410032015 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch: 807931

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030003

SAMPLE DUPLICATE: 3214114

Parameter	Units	60410030003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.6	3	5	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch: 808515

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

METHOD BLANK: 3216064

Matrix: Water

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/20/22 09:08	
Sulfate	mg/L	<1.0	1.0	09/20/22 09:08	

METHOD BLANK: 3218088

Matrix: Water

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030005, 60410030006, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/21/22 08:57	
Sulfate	mg/L	<1.0	1.0	09/21/22 08:57	

LABORATORY CONTROL SAMPLE: 3216065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

LABORATORY CONTROL SAMPLE: 3218089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3216066 3216067

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410000004	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	137	50	50	227	207	179	140	9	15	E,M1
Sulfate	mg/L	986	500	500	1500	1510	104	104	0	15	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

MATRIX SPIKE SAMPLE:		3216068					
Parameter	Units	60410030004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	248	250	484	94	80-120	
Sulfate	mg/L	1600	500	2070	93	80-120 E	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch: 811018

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030006

METHOD BLANK: 3225338

Matrix: Water

Associated Lab Samples: 60410030001, 60410030002, 60410030003, 60410030004, 60410030006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	10/05/22 17:33	

LABORATORY CONTROL SAMPLE: 3225339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3225340 3225341

Parameter	Units	60410001003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.35	2.5	2.5	2.9	2.9	101	103	80-120	2	15	

MATRIX SPIKE SAMPLE: 3225342

Parameter	Units	60410031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	<0.20	2.5	2.5	94	80-120	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

QC Batch: 812266

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410030005, 60410030007

METHOD BLANK: 3230058

Matrix: Water

Associated Lab Samples: 60410030005, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	10/12/22 08:10	

METHOD BLANK: 3232584

Matrix: Water

Associated Lab Samples: 60410030005, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	10/13/22 08:56	

METHOD BLANK: 3233588

Matrix: Water

Associated Lab Samples: 60410030005, 60410030007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluoride	mg/L	<0.20	0.20	10/14/22 10:02	

LABORATORY CONTROL SAMPLE: 3230059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	96	90-110	

LABORATORY CONTROL SAMPLE: 3232585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.5	98	90-110	

LABORATORY CONTROL SAMPLE: 3233589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	102	90-110	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3230060												3230061	
Parameter	Units	60410030005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Fluoride	mg/L	3.7	2.5	2.5	6.5	6.5	112	112	80-120	0	15	H1	

MATRIX SPIKE SAMPLE: 3230062		60411743005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Parameter	Units						
Fluoride	mg/L	ND	2.5	2.6	98	80-120	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

H1 Analysis conducted outside the EPA method holding time.

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410030001	MW-37-090722	EPA 200.7	807547	EPA 200.7	807606
60410030002	MW-38-090722	EPA 200.7	807547	EPA 200.7	807606
60410030003	MW-39-090722	EPA 200.7	807547	EPA 200.7	807606
60410030004	MW-40-090722	EPA 200.7	807547	EPA 200.7	807606
60410030005	MW-K-090722	EPA 200.7	807547	EPA 200.7	807606
60410030006	MW-L-090722	EPA 200.7	807547	EPA 200.7	807606
60410030007	DUP-AP-090722	EPA 200.7	807547	EPA 200.7	807606
60410030001	MW-37-090722	EPA 3010	807549	EPA 6010	807608
60410030002	MW-38-090722	EPA 3010	807549	EPA 6010	807608
60410030003	MW-39-090722	EPA 3010	807549	EPA 6010	807608
60410030004	MW-40-090722	EPA 3010	807549	EPA 6010	807608
60410030005	MW-K-090722	EPA 3010	807549	EPA 6010	807608
60410030006	MW-L-090722	EPA 3010	807549	EPA 6010	807608
60410030007	DUP-AP-090722	EPA 3010	807549	EPA 6010	807608
60410030001	MW-37-090722	EPA 200.8	807548	EPA 200.8	807607
60410030002	MW-38-090722	EPA 200.8	807548	EPA 200.8	807607
60410030003	MW-39-090722	EPA 200.8	807548	EPA 200.8	807607
60410030004	MW-40-090722	EPA 200.8	807548	EPA 200.8	807607
60410030005	MW-K-090722	EPA 200.8	807548	EPA 200.8	807607
60410030006	MW-L-090722	EPA 200.8	807548	EPA 200.8	807607
60410030007	DUP-AP-090722	EPA 200.8	807548	EPA 200.8	807607
60410030001	MW-37-090722	SM 2540C	807697		
60410030002	MW-38-090722	SM 2540C	807697		
60410030003	MW-39-090722	SM 2540C	807697		
60410030004	MW-40-090722	SM 2540C	807698		
60410030005	MW-K-090722	SM 2540C	807698		
60410030006	MW-L-090722	SM 2540C	807698		
60410030007	DUP-AP-090722	SM 2540C	807698		
60410030001	MW-37-090722	SM 4500-H+B	807538		
60410030002	MW-38-090722	SM 4500-H+B	807538		
60410030003	MW-39-090722	SM 4500-H+B	807931		
60410030004	MW-40-090722	SM 4500-H+B	807538		
60410030005	MW-K-090722	SM 4500-H+B	807538		
60410030006	MW-L-090722	SM 4500-H+B	807538		
60410030007	DUP-AP-090722	SM 4500-H+B	807538		
60410030001	MW-37-090722	EPA 300.0	808515		
60410030001	MW-37-090722	EPA 300.0	811018		
60410030002	MW-38-090722	EPA 300.0	808515		
60410030002	MW-38-090722	EPA 300.0	811018		
60410030003	MW-39-090722	EPA 300.0	808515		
60410030003	MW-39-090722	EPA 300.0	811018		
60410030004	MW-40-090722	EPA 300.0	808515		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR

Pace Project No.: 60410030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410030004	MW-40-090722	EPA 300.0	811018		
60410030005	MW-K-090722	EPA 300.0	808515		
60410030005	MW-K-090722	EPA 300.0	812266		
60410030006	MW-L-090722	EPA 300.0	808515		
60410030006	MW-L-090722	EPA 300.0	811018		
60410030007	DUP-AP-090722	EPA 300.0	808515		
60410030007	DUP-AP-090722	EPA 300.0	812266		

REPORT OF LABORATORY ANALYSIS

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WO#: 60410030



	DC#_Title: ENV-FRM-LENE-0009_Sample C		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Energy Kansas Central Inc.

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZZAC

Thermometer Used: TE99 Type of Ice: (Vet) Blue None

Cooler Temperature (°C): As-read 2.2 Corr. Factor 0.0 Corrected 2.2

Date and initials of person examining contents: LG 9/11/22

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>7 Day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>wt</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information, Section B Required Project Information, Section C Invoice Information, REGULATORY AGENCY, Site Location, STATE: KS

Main data table with columns: ITEM #, Section D Required Client Information, Valid Matrix Codes, COLLECTED (DATE, TIME), Preservatives, Analysis Test (200.7, 200.8, 300.0, TDS, 6010), Requested Analysis Filtered (Y/N), Residual Chlorine (Y/N)

Summary table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE, PRINT Name of SAMPLER: Jason R. Franks, SIGNATURE of SAMPLER, DATE Signed (MM/DD/YY): 9/9/22, Temp in °C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Page 36 of 38

9657-9/8

Client: Energy Kansas Central, Inc.

Profile # 26553

Site: LEC Inactive Ash Ponds CLR

Notes 109 TDS/PH from line 8.

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	BP3C	BP3Z	WPDU	ZPLC	Other
1	Matrix																													
2																														
3																														
4																														
5																														
6																														
7	Matrix																													
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCl Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number: 00410030



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Section B

Required Project Information:

Section C

Invoice Information:

Company: EVERGY KANSAS CENTRAL, INC.	Report To: Jake Humphrey	Attention: Accounts Payable
Address: 400 E Van Buren St	Copy To: Laura Hines, Samantha Kaney, Melissa Michels	Company Name: EVERGY KANSAS CENTRAL, INC
Suite 545 Phoenix, AZ 85004	Danielle Oberbroeckling	Address: SEE SECTION A
Email To: doberbroeckling@haleyaldrich.com	Purchase Order No.: 10JEC-0000047747	Pace Quote Reference:
Phone: 507-251-2232 Fax:	Project Name: LEC Inactive Ash Pond	Pace Project Manager: Alice Spiller, 913-563-1403
Requested Due Date/TAT:	Project Number:	Pace Profile #: 9657, 9

REGULATORY AGENCY

NPDES
 GROUND WATER
 DRINKING WATER
 UST
 RCRA
 OTHER _____

Site Location
 STATE: KS

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analysis Test ↓ Y/N ↓	200.7 Total Metals*	200.8 Total Metals**	6010 Lithium***	Total dissolved solids	300.0 Cl, F, S	pH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other													
		DRINKING WATER	DW			DATE	TIME	DATE	TIME																							
1		WT																														
2		WT																														
3		WT																														
4		WT																														
5		WT																														
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
200.7 Total Metals*: As, B, Ba, Ca, Pb							
200.8 Total Metals**: Co, Mo							
6010 Total Metals***: Li (1 metal)							

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:							
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):					

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

October 04, 2022

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

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410032

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60410032001	MW-A-090722	Water	09/07/22 15:45	09/10/22 08:00
60410032002	MW-B-090722	Water	09/07/22 17:20	09/10/22 08:00
60410032003	MW-C-090622	Water	09/06/22 17:15	09/10/22 08:00
60410032004	MW-D-090722	Water	09/07/22 12:30	09/10/22 08:00
60410032005	MW-G-090722	Water	09/07/22 15:10	09/10/22 08:00
60410032006	MW-M-090622	Water	09/06/22 17:10	09/10/22 08:00
60410032007	MW-N-090622	Water	09/06/22 12:30	09/10/22 08:00
60410032008	MW-O-090722	Water	09/07/22 13:15	09/10/22 08:00
60410032009	MW-P-090622	Water	09/06/22 15:10	09/10/22 08:00
60410032010	MW-101-090622	Water	09/06/22 14:25	09/10/22 08:00
60410032011	MW-103-090622	Water	09/06/22 13:25	09/10/22 08:00
60410032012	MW-104-090722	Water	09/07/22 09:20	09/10/22 08:00
60410032013	MW-106-090722	Water	09/07/22 17:40	09/10/22 08:00
60410032014	MW-107-090622	Water	09/06/22 15:20	09/10/22 08:00
60410032015	MW-108-090622	Water	09/06/22 11:35	09/10/22 08:00
60410032016	MW-109-090922	Water	09/09/22 12:45	09/10/22 08:00
60410032017	MW-110-090922	Water	09/09/22 11:30	09/10/22 08:00
60410032018	MW-112-090722	Water	09/07/22 17:15	09/10/22 08:00
60410032019	MW-113-090922	Water	09/09/22 10:20	09/10/22 08:00
60410032020	LEC-CMA-DUP01-090622	Water	09/06/22 12:35	09/10/22 08:00
60410032021	LEC-CMA-DUP02-090722	Water	09/07/22 09:25	09/10/22 08:00
60410032022	LEC-CMA-EB-090922	Water	09/09/22 13:00	09/10/22 08:00

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410032001	MW-A-090722	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		60410032002	MW-B-090722	EPA 200.7	MRV
EPA 200.7	MRV			2	PASI-K
EPA 6010	MRV			1	PASI-K
EPA 6010	MRV			1	PASI-K
EPA 200.8	MRV			3	PASI-K
EPA 200.8	MRV			2	PASI-K
SM 2320B	ET			3	PASI-K
SM 2540C	TML			1	PASI-K
SM 3500-Fe B#4	BLA			1	PASI-K
SM 4500-H+B	ET			1	PASI-K
SM 4500-S-2 D	BLA			1	PASI-K
EPA 300.0	CRN2			3	PASI-K
SM 5310C	BLA			1	PASI-K
SM 5310C	BLA			1	PASI-K
60410032003	MW-C-090622			EPA 200.7	MRV
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410032004	MW-D-090722	SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
60410032005	MW-G-090722	EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		60410032006	MW-M-090622	SM 5310C	BLA
SM 5310C	BLA			1	PASI-K
EPA 200.7	MRV			10	PASI-K
EPA 200.7	MRV			2	PASI-K
EPA 6010	MRV			1	PASI-K
EPA 6010	MRV			1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410032007	MW-N-090622	EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
SM 3500-Fe B#4	BLA	1	PASI-K		
SM 4500-H+B	ET	1	PASI-K		
SM 4500-S-2 D	BLA	1	PASI-K		
EPA 300.0	CRN2	3	PASI-K		
SM 5310C	BLA	1	PASI-K		
SM 5310C	BLA	1	PASI-K		
60410032008	MW-O-090722	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410032009	MW-P-090622	SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032010	MW-101-090622	SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032011	MW-103-090622	SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032012	MW-104-090722	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032013	MW-106-090722	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032014	MW-107-090622	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032015	MW-108-090622	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032016	MW-109-090922	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410032017	MW-110-090922	SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60410032018	MW-112-090722	SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60410032019	MW-113-090922	SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032020	LEC-CMA-DUP01-090622	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032021	LEC-CMA-DUP02-090722	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	3	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410032022	LEC-CMA-EB-090922	EPA 200.7	MRV	10	PASI-K
		EPA 6010	MRV	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	MRV	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

22 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: 807554

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410032001,60410032010

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

- MS (Lab ID: 3212566)
 - Calcium
- MS (Lab ID: 3212568)
 - Calcium
- MSD (Lab ID: 3212567)
 - Calcium

QC Batch: 807558

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410032014

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

- MS (Lab ID: 3212582)
 - Calcium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

22 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:

Analyte Comments:

QC Batch: 807556

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-103-090622 (Lab ID: 60410032011)
 - Cobalt, Total Recoverable
- MW-104-090722 (Lab ID: 60410032012)
 - Arsenic, Total Recoverable
 - Cobalt, Total Recoverable
- MW-O-090722 (Lab ID: 60410032008)
 - Cobalt, Total Recoverable

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

Analyte Comments:

QC Batch: 807560

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- LEC-CMA-DUP02-090722 (Lab ID: 60410032021)
 - Arsenic, Total Recoverable
 - Cobalt, Total Recoverable
- MW-109-090922 (Lab ID: 60410032016)
 - Cobalt, Total Recoverable
- MW-110-090922 (Lab ID: 60410032017)
 - Cobalt, Total Recoverable

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 200.8

Description: 200.8 MET ICPMS, Dissolved

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 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.

H1: Analysis conducted outside the EPA method holding time.

- LEC-CMA-DUP01-090622 (Lab ID: 60410032020)
- MW-101-090622 (Lab ID: 60410032010)
- MW-103-090622 (Lab ID: 60410032011)
- MW-107-090622 (Lab ID: 60410032014)
- MW-108-090622 (Lab ID: 60410032015)
- MW-C-090622 (Lab ID: 60410032003)
- MW-M-090622 (Lab ID: 60410032006)
- MW-N-090622 (Lab ID: 60410032007)
- MW-P-090622 (Lab ID: 60410032009)

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: 807697

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

- DUP (Lab ID: 3213114)
 - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 samples were analyzed for SM 3500-Fe B#4 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.

- LEC-CMA-DUP01-090622 (Lab ID: 60410032020)
- LEC-CMA-DUP02-090722 (Lab ID: 60410032021)
- MW-101-090622 (Lab ID: 60410032010)
- MW-103-090622 (Lab ID: 60410032011)
- MW-104-090722 (Lab ID: 60410032012)
- MW-106-090722 (Lab ID: 60410032013)
- MW-107-090622 (Lab ID: 60410032014)
- MW-108-090622 (Lab ID: 60410032015)
- MW-109-090922 (Lab ID: 60410032016)
- MW-110-090922 (Lab ID: 60410032017)
- MW-112-090722 (Lab ID: 60410032018)
- MW-113-090922 (Lab ID: 60410032019)
- MW-A-090722 (Lab ID: 60410032001)
- MW-B-090722 (Lab ID: 60410032002)
- MW-C-090622 (Lab ID: 60410032003)
- MW-D-090722 (Lab ID: 60410032004)
- MW-G-090722 (Lab ID: 60410032005)
- MW-M-090622 (Lab ID: 60410032006)
- MW-N-090622 (Lab ID: 60410032007)
- MW-O-090722 (Lab ID: 60410032008)
- MW-P-090622 (Lab ID: 60410032009)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 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.

- LEC-CMA-DUP01-090622 (Lab ID: 60410032020)
- LEC-CMA-DUP02-090722 (Lab ID: 60410032021)
- MW-101-090622 (Lab ID: 60410032010)
- MW-103-090622 (Lab ID: 60410032011)
- MW-104-090722 (Lab ID: 60410032012)
- MW-106-090722 (Lab ID: 60410032013)
- MW-107-090622 (Lab ID: 60410032014)
- MW-108-090622 (Lab ID: 60410032015)
- MW-109-090922 (Lab ID: 60410032016)
- MW-110-090922 (Lab ID: 60410032017)
- MW-112-090722 (Lab ID: 60410032018)
- MW-113-090922 (Lab ID: 60410032019)
- MW-A-090722 (Lab ID: 60410032001)
- MW-B-090722 (Lab ID: 60410032002)
- MW-C-090622 (Lab ID: 60410032003)
- MW-D-090722 (Lab ID: 60410032004)
- MW-G-090722 (Lab ID: 60410032005)
- MW-M-090622 (Lab ID: 60410032006)
- MW-N-090622 (Lab ID: 60410032007)
- MW-O-090722 (Lab ID: 60410032008)
- MW-P-090622 (Lab ID: 60410032009)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 samples were analyzed for SM 4500-S-2 D 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.

H1: Analysis conducted outside the EPA method holding time.

- LEC-CMA-DUP01-090622 (Lab ID: 60410032020)
- MW-101-090622 (Lab ID: 60410032010)
- MW-103-090622 (Lab ID: 60410032011)
- MW-107-090622 (Lab ID: 60410032014)
- MW-108-090622 (Lab ID: 60410032015)
- MW-C-090622 (Lab ID: 60410032003)
- MW-M-090622 (Lab ID: 60410032006)
- MW-N-090622 (Lab ID: 60410032007)
- MW-P-090622 (Lab ID: 60410032009)

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: 807597

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410032012

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

- MS (Lab ID: 3212749)
 - Sulfide, Total
- MSD (Lab ID: 3212750)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 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: 808857

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410159001

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

- MS (Lab ID: 3217353)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 3217354)
 - Chloride
 - Fluoride
 - Sulfate

QC Batch: 808858

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410032020

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

- MS (Lab ID: 3217358)
 - Fluoride
- MSD (Lab ID: 3217359)
 - Fluoride
 - Sulfate

R1: RPD value was outside control limits.

- MSD (Lab ID: 3217359)
 - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 samples were analyzed for SM 5310C 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: October 04, 2022

General Information:

21 samples were analyzed for SM 5310C 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:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-A-090722	Lab ID: 60410032001	Collected: 09/07/22 15:45	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.32	mg/L	0.0050	1	09/14/22 09:53	09/20/22 11:49	7440-39-3	
Boron, Total Recoverable	0.41	mg/L	0.10	1	09/14/22 09:53	09/20/22 11:49	7440-42-8	
Calcium, Total Recoverable	154	mg/L	0.20	1	09/14/22 09:53	09/20/22 11:49	7440-70-2	M1
Hardness, Magnesium (SM 2340B)	92.9	mg/L	0.21	1	09/14/22 09:53	09/20/22 11:49		
Iron, Total Recoverable	31.2	mg/L	0.050	1	09/14/22 09:53	09/20/22 11:49	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 11:49	7439-92-1	
Magnesium, Total Recoverable	22.6	mg/L	0.050	1	09/14/22 09:53	09/20/22 11:49	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	09/14/22 09:53	09/20/22 11:49	7439-96-5	
Potassium, Total Recoverable	5.2	mg/L	0.50	1	09/14/22 09:53	09/20/22 11:49	7440-09-7	
Sodium, Total Recoverable	33.5	mg/L	0.50	1	09/14/22 09:53	09/20/22 11:49	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	5.6	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:13	7439-89-6	
Manganese, Dissolved	0.98	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:13	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.012	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:38	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.014	mg/L	0.010	1	09/14/22 09:35	09/20/22 09:59	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.032	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:02	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:02	7440-48-4	
Molybdenum, Total Recoverable	0.018	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:02	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0032	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:19	7440-38-2	
Molybdenum, Dissolved	0.018	mg/L	0.0010	1	09/14/22 09:35	09/26/22 15:46	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	391	mg/L	20.0	1		09/14/22 14:03		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 14:03		
Alkalinity, Total as CaCO ₃	391	mg/L	20.0	1		09/14/22 14:03		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	761	mg/L	10.0	1		09/14/22 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-A-090722	Lab ID: 60410032001	Collected: 09/07/22 15:45	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.63	mg/L	0.20	1		09/23/22 13:37	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		09/16/22 11:53		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:13	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	41.7	mg/L	10.0	10		09/22/22 02:27	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/22/22 02:15	16984-48-8	
Sulfate	157	mg/L	10.0	10		09/22/22 02:27	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.0	mg/L	1.0	1		09/22/22 14:31	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.2	mg/L	1.0	1		09/22/22 13:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-B-090722	Lab ID: 60410032002	Collected: 09/07/22 17:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.74	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:01	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:01	7440-42-8	
Calcium, Total Recoverable	190	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:01	7440-70-2	
Hardness, Magnesium (SM 2340B)	73.4	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:01		
Iron, Total Recoverable	3.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:01	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:01	7439-92-1	
Magnesium, Total Recoverable	17.8	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:01	7439-95-4	
Manganese, Total Recoverable	18.6	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:01	7439-96-5	
Potassium, Total Recoverable	7.6	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:01	7440-09-7	
Sodium, Total Recoverable	3.6	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:01	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.057	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:19	7439-89-6	
Manganese, Dissolved	0.46	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:19	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.019	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:51	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.022	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:05	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.022	mg/L	0.0010	1	09/14/22 09:53	09/23/22 12:50	7440-38-2	
Cobalt, Total Recoverable	0.18	mg/L	0.0010	1	09/14/22 09:53	09/23/22 12:50	7440-48-4	
Molybdenum, Total Recoverable	0.043	mg/L	0.0010	1	09/14/22 09:53	09/23/22 12:50	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0057	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:08	7440-38-2	
Molybdenum, Dissolved	0.0099	mg/L	0.0010	1	09/14/22 09:35	09/26/22 15:48	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	466	mg/L	20.0	1		09/14/22 14:16		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 14:16		
Alkalinity, Total as CaCO ₃	466	mg/L	20.0	1		09/14/22 14:16		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	761	mg/L	10.0	1		09/14/22 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-B-090722	Lab ID: 60410032002	Collected: 09/07/22 17:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:38	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/16/22 11:53		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:13	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	8.8	mg/L	1.0	1		09/22/22 02:53	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/22/22 02:53	16984-48-8	
Sulfate	84.1	mg/L	10.0	10		09/22/22 03:05	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.7	mg/L	1.0	1		09/22/22 14:45	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.9	mg/L	1.0	1		09/22/22 14:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-C-090622	Lab ID: 60410032003	Collected: 09/06/22 17:15	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.11	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:03	7440-39-3	
Boron, Total Recoverable	0.22	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:03	7440-42-8	
Calcium, Total Recoverable	144	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:03	7440-70-2	
Hardness, Magnesium (SM 2340B)	60.9	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:03		
Iron, Total Recoverable	0.84	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:03	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:03	7439-92-1	
Magnesium, Total Recoverable	14.8	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:03	7439-95-4	
Manganese, Total Recoverable	0.17	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:03	7439-96-5	
Potassium, Total Recoverable	5.9	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:03	7440-09-7	
Sodium, Total Recoverable	21.4	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:03	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:21	7439-89-6	
Manganese, Dissolved	0.061	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:21	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.019	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:53	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.018	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:07	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0040	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:04	7440-38-2	
Cobalt, Total Recoverable	0.0011	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:04	7440-48-4	
Molybdenum, Total Recoverable	0.011	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:04	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0038	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:22	7440-38-2	
Molybdenum, Dissolved	0.011	mg/L	0.0010	1	09/14/22 09:35	09/26/22 15:58	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	347	mg/L	20.0	1		09/14/22 12:38		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 12:38		
Alkalinity, Total as CaCO ₃	347	mg/L	20.0	1		09/14/22 12:38		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	608	mg/L	10.0	1		09/14/22 14:43		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-C-090622	Lab ID: 60410032003	Collected: 09/06/22 17:15	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:20	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 12:09	18496-25-8	H1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	18.7	mg/L	1.0	1		09/21/22 21:17	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/21/22 21:17	16984-48-8	
Sulfate	94.7	mg/L	10.0	10		09/21/22 21:30	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.4	mg/L	1.0	1		09/22/22 15:29	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.7	mg/L	1.0	1		09/22/22 14:43		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-D-090722	Lab ID: 60410032004	Collected: 09/07/22 12:30	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.33	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:06	7440-39-3	
Boron, Total Recoverable	0.47	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:06	7440-42-8	
Calcium, Total Recoverable	298	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:06	7440-70-2	
Hardness, Magnesium (SM 2340B)	194	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:06		
Iron, Total Recoverable	26.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:06	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:06	7439-92-1	
Magnesium, Total Recoverable	47.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:06	7439-95-4	
Manganese, Total Recoverable	5.2	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:06	7439-96-5	
Potassium, Total Recoverable	8.7	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:06	7440-09-7	
Sodium, Total Recoverable	26.8	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:06	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	16.6	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:23	7439-89-6	
Manganese, Dissolved	5.1	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:23	7439-96-5	
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	09/14/22 09:53	09/20/22 12:55	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.010	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:09	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0083	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:07	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:07	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:07	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0039	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:25	7440-38-2	
Molybdenum, Dissolved	<0.0010	mg/L	0.0010	1	09/14/22 09:35	09/26/22 16:00	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	450	mg/L	20.0	1		09/14/22 14:23		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 14:23		
Alkalinity, Total as CaCO ₃	450	mg/L	20.0	1		09/14/22 14:23		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1460	mg/L	13.3	1		09/14/22 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-D-090722	Lab ID: 60410032004	Collected: 09/07/22 12:30	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.52	mg/L	0.20	1		09/23/22 13:23	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.0	Std. Units	0.10	1		09/14/22 12:20		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:14	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	131	mg/L	10.0	10		09/21/22 22:08	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/21/22 21:55	16984-48-8	
Sulfate	431	mg/L	50.0	50		09/21/22 22:20	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.6	mg/L	1.0	1		09/22/22 15:43	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.9	mg/L	1.0	1		09/22/22 14:58		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-G-090722	Lab ID: 60410032005	Collected: 09/07/22 15:10	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.045	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:08	7440-39-3	
Boron, Total Recoverable	1.8	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:08	7440-42-8	
Calcium, Total Recoverable	183	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:08	7440-70-2	
Hardness, Magnesium (SM 2340B)	103	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:08		
Iron, Total Recoverable	3.3	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:08	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:08	7439-92-1	
Magnesium, Total Recoverable	25.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:08	7439-95-4	
Manganese, Total Recoverable	0.66	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:08	7439-96-5	
Potassium, Total Recoverable	8.2	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:08	7440-09-7	
Sodium, Total Recoverable	76.3	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:08	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.1	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:25	7439-89-6	
Manganese, Dissolved	0.64	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:25	7439-96-5	
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	09/14/22 09:53	09/20/22 12:57	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.010	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:11	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.014	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:10	7440-38-2	
Cobalt, Total Recoverable	0.0028	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:10	7440-48-4	
Molybdenum, Total Recoverable	0.0045	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:10	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.012	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:28	7440-38-2	
Molybdenum, Dissolved	0.0048	mg/L	0.0010	1	09/14/22 09:35	09/26/22 16:03	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	329	mg/L	20.0	1		09/14/22 14:42		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 14:42		
Alkalinity, Total as CaCO ₃	329	mg/L	20.0	1		09/14/22 14:42		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1010	mg/L	13.3	1		09/14/22 15:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-G-090722	Lab ID: 60410032005	Collected: 09/07/22 15:10	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:25	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/14/22 12:20		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:14	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	23.2	mg/L	10.0	10		09/21/22 22:46	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/21/22 22:33	16984-48-8	
Sulfate	427	mg/L	50.0	50		09/21/22 23:23	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.0	mg/L	1.0	1		09/22/22 15:57	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	11.5	mg/L	1.0	1		09/22/22 15:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-M-090622	Lab ID: 60410032006	Collected: 09/06/22 17:10	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.32	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:10	7440-39-3	
Boron, Total Recoverable	0.64	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:10	7440-42-8	
Calcium, Total Recoverable	182	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:10	7440-70-2	
Hardness, Magnesium (SM 2340B)	96.4	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:10		
Iron, Total Recoverable	5.2	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:10	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:10	7439-92-1	
Magnesium, Total Recoverable	23.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:10	7439-95-4	
Manganese, Total Recoverable	3.5	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:10	7439-96-5	
Potassium, Total Recoverable	7.7	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:10	7440-09-7	
Sodium, Total Recoverable	33.4	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:10	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:33	7439-89-6	
Manganese, Dissolved	0.0056	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:33	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.024	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:59	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.020	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:13	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0078	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:13	7440-38-2	
Cobalt, Total Recoverable	0.0056	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:13	7440-48-4	
Molybdenum, Total Recoverable	0.017	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:13	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0049	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:33	7440-38-2	
Molybdenum, Dissolved	0.0080	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:33	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO3)	419	mg/L	20.0	1		09/14/22 12:44		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/14/22 12:44		
Alkalinity, Total as CaCO3	419	mg/L	20.0	1		09/14/22 12:44		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	869	mg/L	10.0	1		09/14/22 15:43		H1

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-M-090622		Lab ID: 60410032006		Collected: 09/06/22 17:10	Received: 09/10/22 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	0.46	mg/L	0.20	1		09/23/22 13:20	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	0.14	mg/L	0.050	1		09/14/22 12:10	18496-25-8	H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	35.4	mg/L	10.0	10		09/21/22 23:49	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/21/22 23:36	16984-48-8	
Sulfate	185	mg/L	50.0	50		09/22/22 00:01	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.2	mg/L	1.0	1		09/22/22 16:12	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	4.7	mg/L	1.0	1		09/22/22 16:00		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-N-090622	Lab ID: 60410032007	Collected: 09/06/22 12:30	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.43	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:12	7440-39-3	
Boron, Total Recoverable	0.72	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:12	7440-42-8	
Calcium, Total Recoverable	122	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:12	7440-70-2	
Hardness, Magnesium (SM 2340B)	201	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:12		
Iron, Total Recoverable	34.1	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:12	7439-89-6	
Lead, Total Recoverable	0.019	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:12	7439-92-1	
Magnesium, Total Recoverable	48.8	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:12	7439-95-4	
Manganese, Total Recoverable	0.59	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:12	7439-96-5	
Potassium, Total Recoverable	19.1	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:12	7440-09-7	
Sodium, Total Recoverable	27.3	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:12	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	1.3	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:35	7439-89-6	
Manganese, Dissolved	0.38	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:35	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.057	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:01	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.047	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:22	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.080	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:18	7440-38-2	
Cobalt, Total Recoverable	0.0054	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:18	7440-48-4	
Molybdenum, Total Recoverable	0.034	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:18	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.011	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:36	7440-38-2	
Molybdenum, Dissolved	0.038	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:36	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	438	mg/L	20.0	1		09/14/22 12:51		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 12:51		
Alkalinity, Total as CaCO ₃	438	mg/L	20.0	1		09/14/22 12:51		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	643	mg/L	10.0	1		09/14/22 15:43		H1

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-N-090622		Lab ID: 60410032007		Collected: 09/06/22 12:30	Received: 09/10/22 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	1.8	mg/L	0.20	1		09/23/22 13:17	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.9	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	0.54	mg/L	0.050	1		09/14/22 12:10	18496-25-8	H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	28.4	mg/L	5.0	5		09/23/22 15:43	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		09/22/22 11:43	16984-48-8	
Sulfate	89.2	mg/L	10.0	10		09/23/22 15:56	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	3.1	mg/L	1.0	1		09/22/22 16:26	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	8.0	mg/L	1.0	1		09/22/22 16:15		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-O-090722	Lab ID: 60410032008	Collected: 09/07/22 13:15	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.046	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:14	7440-39-3	
Boron, Total Recoverable	2.7	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:14	7440-42-8	
Calcium, Total Recoverable	490	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:14	7440-70-2	
Hardness, Magnesium (SM 2340B)	651	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:14		
Iron, Total Recoverable	9.2	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:14	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:14	7439-92-1	
Magnesium, Total Recoverable	158	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:14	7439-95-4	
Manganese, Total Recoverable	1.8	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:14	7439-96-5	
Potassium, Total Recoverable	29.8	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:14	7440-09-7	
Sodium, Total Recoverable	419	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:14	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	8.3	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:37	7439-89-6	
Manganese, Dissolved	1.8	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:37	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.094	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:03	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.096	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:24	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.015	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:21	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:21	7440-48-4	D3
Molybdenum, Total Recoverable	0.064	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:21	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.015	mg/L	0.0020	2	09/14/22 09:35	09/23/22 15:39	7440-38-2	
Molybdenum, Dissolved	0.068	mg/L	0.0020	2	09/14/22 09:35	09/23/22 15:39	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	231	mg/L	20.0	1		09/14/22 14:48		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 14:48		
Alkalinity, Total as CaCO ₃	231	mg/L	20.0	1		09/14/22 14:48		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	4300	mg/L	125	1		09/14/22 15:47		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-O-090722	Lab ID: 60410032008	Collected: 09/07/22 13:15	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:23	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:20		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:15	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	729	mg/L	200	200		09/22/22 12:21	16887-00-6	
Fluoride	3.0	mg/L	0.20	1		09/22/22 12:08	16984-48-8	
Sulfate	2170	mg/L	200	200		09/22/22 12:21	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	1.9	mg/L	1.0	1		09/22/22 16:40	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.6	mg/L	1.0	1		09/22/22 16:31		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-P-090622	Lab ID: 60410032009	Collected: 09/06/22 15:10	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.061	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:16	7440-39-3	
Boron, Total Recoverable	1.0	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:16	7440-42-8	
Calcium, Total Recoverable	215	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:16	7440-70-2	
Hardness, Magnesium (SM 2340B)	153	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:16		
Iron, Total Recoverable	1.3	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:16	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:16	7439-92-1	
Magnesium, Total Recoverable	37.1	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:16	7439-95-4	
Manganese, Total Recoverable	2.6	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:16	7439-96-5	
Potassium, Total Recoverable	12.9	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:16	7440-09-7	
Sodium, Total Recoverable	47.4	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:16	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.053	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:39	7439-89-6	
Manganese, Dissolved	1.9	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:39	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.029	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:05	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.030	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:26	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0037	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:27	7440-38-2	
Cobalt, Total Recoverable	0.0026	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:27	7440-48-4	
Molybdenum, Total Recoverable	0.030	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:27	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0018	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:47	7440-38-2	
Molybdenum, Dissolved	0.034	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:47	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	431	mg/L	20.0	1		09/14/22 12:59		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 12:59		
Alkalinity, Total as CaCO ₃	431	mg/L	20.0	1		09/14/22 12:59		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1060	mg/L	13.3	1		09/14/22 15:43		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-P-090622		Lab ID: 60410032009		Collected: 09/06/22 15:10	Received: 09/10/22 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:18	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 12:10	18496-25-8	H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	55.1	mg/L	10.0	10		09/23/22 16:08	16887-00-6	
Fluoride	2.1	mg/L	0.20	1		09/22/22 12:33	16984-48-8	M1
Sulfate	411	mg/L	200	200		09/22/22 12:59	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.2	mg/L	1.0	1		09/22/22 16:55	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	9.0	mg/L	1.0	1		09/22/22 16:46		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-101-090622	Lab ID: 60410032010	Collected: 09/06/22 14:25	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.17	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:24	7440-39-3	
Boron, Total Recoverable	0.23	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:24	7440-42-8	
Calcium, Total Recoverable	106	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:24	7440-70-2	M1
Hardness, Magnesium (SM 2340B)	95.5	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:24		
Iron, Total Recoverable	2.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:24	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:24	7439-92-1	
Magnesium, Total Recoverable	23.2	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:24	7439-95-4	
Manganese, Total Recoverable	0.17	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:24	7439-96-5	
Potassium, Total Recoverable	6.6	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:24	7440-09-7	
Sodium, Total Recoverable	14.9	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:24	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:41	7439-89-6	
Manganese, Dissolved	0.050	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:41	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.022	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:13	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.022	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:28	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0025	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:35	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:35	7440-48-4	
Molybdenum, Total Recoverable	0.024	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:35	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.0010	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:53	7440-38-2	
Molybdenum, Dissolved	0.026	mg/L	0.0010	1	09/14/22 09:35	09/23/22 15:53	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	320	mg/L	20.0	1		09/14/22 13:07		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 13:07		
Alkalinity, Total as CaCO ₃	320	mg/L	20.0	1		09/14/22 13:07		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	476	mg/L	10.0	1		09/14/22 15:43		H1

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-101-090622		Lab ID: 60410032010		Collected: 09/06/22 14:25	Received: 09/10/22 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:18	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 12:11	18496-25-8	H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	41.5	mg/L	10.0	10		09/23/22 16:33	16887-00-6	
Fluoride	0.74	mg/L	0.20	1		09/22/22 13:49	16984-48-8	
Sulfate	28.6	mg/L	10.0	10		09/23/22 16:33	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.1	mg/L	1.0	1		09/22/22 17:09	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	10.1	mg/L	1.0	1		09/22/22 17:02		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-103-090622	Lab ID: 60410032011	Collected: 09/06/22 13:25	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.041	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:28	7440-39-3	
Boron, Total Recoverable	3.6	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:28	7440-42-8	
Calcium, Total Recoverable	277	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:28	7440-70-2	
Hardness, Magnesium (SM 2340B)	170	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:28		
Iron, Total Recoverable	3.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:28	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:28	7439-92-1	
Magnesium, Total Recoverable	41.2	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:28	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:28	7439-96-5	
Potassium, Total Recoverable	22.2	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:28	7440-09-7	
Sodium, Total Recoverable	181	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:28	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	4.8	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:45	7439-89-6	
Manganese, Dissolved	1.9	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:45	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.039	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:15	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.053	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:30	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0059	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:38	7440-38-2	
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:38	7440-48-4	D3
Molybdenum, Total Recoverable	0.16	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:38	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0055	mg/L	0.0020	2	09/14/22 09:35	09/23/22 15:56	7440-38-2	
Molybdenum, Dissolved	0.21	mg/L	0.0020	2	09/14/22 09:35	09/23/22 15:56	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	321	mg/L	20.0	1		09/14/22 13:26		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 13:26		
Alkalinity, Total as CaCO ₃	321	mg/L	20.0	1		09/14/22 13:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2250	mg/L	40.0	1		09/14/22 15:44		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-103-090622	Lab ID: 60410032011	Collected: 09/06/22 13:25	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:17	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 12:11	18496-25-8	H1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	280	mg/L	200	200		09/22/22 14:26	16887-00-6	
Fluoride	2.5	mg/L	0.20	1		09/22/22 14:14	16984-48-8	
Sulfate	986	mg/L	200	200		09/22/22 14:26	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.8	mg/L	1.0	1		09/22/22 17:24	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	4.4	mg/L	1.0	1		09/22/22 17:17		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-104-090722	Lab ID: 60410032012	Collected: 09/07/22 09:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.040	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:30	7440-39-3	
Boron, Total Recoverable	1.6	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:30	7440-42-8	
Calcium, Total Recoverable	292	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:30	7440-70-2	
Hardness, Magnesium (SM 2340B)	124	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:30		
Iron, Total Recoverable	1.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:30	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:30	7439-92-1	
Magnesium, Total Recoverable	30.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:30	7439-95-4	
Manganese, Total Recoverable	0.64	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:30	7439-96-5	
Potassium, Total Recoverable	48.0	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:30	7440-09-7	
Sodium, Total Recoverable	147	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:30	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	5.0	mg/L	0.050	1	09/14/22 09:35	09/20/22 09:47	7439-89-6	
Manganese, Dissolved	1.5	mg/L	0.0050	1	09/14/22 09:35	09/20/22 09:47	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.055	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:17	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.060	mg/L	0.010	1	09/14/22 09:35	09/20/22 10:32	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:52	7440-38-2	D3
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:52	7440-48-4	D3
Molybdenum, Total Recoverable	0.035	mg/L	0.0020	2	09/14/22 09:53	09/23/22 13:52	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0032	mg/L	0.0020	2	09/14/22 09:35	09/23/22 16:10	7440-38-2	
Molybdenum, Dissolved	0.058	mg/L	0.0020	2	09/14/22 09:35	09/23/22 16:10	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	435	mg/L	20.0	1		09/14/22 14:54		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 14:54		
Alkalinity, Total as CaCO ₃	435	mg/L	20.0	1		09/14/22 14:54		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1840	mg/L	40.0	1		09/14/22 15:48		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-104-090722	Lab ID: 60410032012	Collected: 09/07/22 09:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:20	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:30	18496-25-8	M1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	276	mg/L	200	200		09/22/22 14:52	16887-00-6	
Fluoride	0.42	mg/L	0.20	1		09/22/22 14:39	16984-48-8	
Sulfate	675	mg/L	200	200		09/22/22 14:52	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.0	mg/L	1.0	1		09/22/22 17:38	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	5.1	mg/L	1.0	1		09/22/22 17:32		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-106-090722	Lab ID: 60410032013	Collected: 09/07/22 17:40	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.20	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:32	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/14/22 09:53	09/20/22 12:32	7440-42-8	
Calcium, Total Recoverable	38.8	mg/L	0.20	1	09/14/22 09:53	09/20/22 12:32	7440-70-2	
Hardness, Magnesium (SM 2340B)	24.2	mg/L	0.21	1	09/14/22 09:53	09/20/22 12:32		
Iron, Total Recoverable	1.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:32	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 12:32	7439-92-1	
Magnesium, Total Recoverable	5.9	mg/L	0.050	1	09/14/22 09:53	09/20/22 12:32	7439-95-4	
Manganese, Total Recoverable	0.045	mg/L	0.0050	1	09/14/22 09:53	09/20/22 12:32	7439-96-5	
Potassium, Total Recoverable	2.1	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:32	7440-09-7	
Sodium, Total Recoverable	38.9	mg/L	0.50	1	09/14/22 09:53	09/20/22 12:32	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 09:35	09/20/22 10:38	7439-89-6	
Manganese, Dissolved	<0.0050	mg/L	0.0050	1	09/14/22 09:35	09/20/22 10:38	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.013	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:19	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.012	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:17	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:58	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:58	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 13:58	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.0010	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:34	7440-38-2	
Molybdenum, Dissolved	<0.0010	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:34	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO3)	205	mg/L	20.0	1		09/14/22 15:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		09/14/22 15:00		
Alkalinity, Total as CaCO3	205	mg/L	20.0	1		09/14/22 15:00		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	284	mg/L	5.0	1		09/14/22 15:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-106-090722	Lab ID: 60410032013	Collected: 09/07/22 17:40	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:38	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		09/16/22 11:53		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	0.062	mg/L	0.050	1		09/14/22 13:31	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	2.2	mg/L	1.0	1		09/22/22 15:04	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/22/22 15:04	16984-48-8	
Sulfate	4.1	mg/L	1.0	1		09/22/22 15:04	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	<1.0	mg/L	1.0	1		09/22/22 18:21	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	6.1	mg/L	1.0	1		09/22/22 17:48		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-107-090622	Lab ID: 60410032014	Collected: 09/06/22 15:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.17	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:25	7440-39-3	
Boron, Total Recoverable	0.13	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:25	7440-42-8	
Calcium, Total Recoverable	116	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:25	7440-70-2	M1
Hardness, Magnesium (SM 2340B)	117	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:25		
Iron, Total Recoverable	3.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:25	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:25	7439-92-1	
Magnesium, Total Recoverable	28.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:25	7439-95-4	
Manganese, Total Recoverable	0.40	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:25	7439-96-5	
Potassium, Total Recoverable	8.5	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:25	7440-09-7	
Sodium, Total Recoverable	5.5	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:25	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.59	mg/L	0.050	1	09/14/22 09:35	09/20/22 10:50	7439-89-6	
Manganese, Dissolved	0.37	mg/L	0.0050	1	09/14/22 09:35	09/20/22 10:50	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.023	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:04	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.024	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:23	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.016	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:19	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:19	7440-48-4	
Molybdenum, Total Recoverable	0.026	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:19	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0053	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:23	7440-38-2	
Molybdenum, Dissolved	0.026	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:23	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	373	mg/L	20.0	1		09/14/22 13:33		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 13:33		
Alkalinity, Total as CaCO ₃	373	mg/L	20.0	1		09/14/22 13:33		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	499	mg/L	10.0	1		09/14/22 15:44		H1

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-107-090622	Lab ID: 60410032014	Collected: 09/06/22 15:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:19	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 12:12	18496-25-8	H1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	11.1	mg/L	1.0	1		09/22/22 15:29	16887-00-6	
Fluoride	1.3	mg/L	0.20	1		09/22/22 15:29	16984-48-8	
Sulfate	48.1	mg/L	10.0	10		09/23/22 16:46	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.4	mg/L	1.0	1		09/22/22 18:35	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	6.9	mg/L	1.0	1		09/21/22 11:12		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-108-090622	Lab ID: 60410032015	Collected: 09/06/22 11:35	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.25	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:38	7440-39-3	
Boron, Total Recoverable	0.20	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:38	7440-42-8	
Calcium, Total Recoverable	104	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:38	7440-70-2	
Hardness, Magnesium (SM 2340B)	84.9	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:38		
Iron, Total Recoverable	3.8	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:38	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:38	7439-92-1	
Magnesium, Total Recoverable	20.6	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:38	7439-95-4	
Manganese, Total Recoverable	0.49	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:38	7439-96-5	
Potassium, Total Recoverable	9.0	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:38	7440-09-7	
Sodium, Total Recoverable	21.6	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:38	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.3	mg/L	0.050	1	09/14/22 09:35	09/20/22 10:52	7439-89-6	
Manganese, Dissolved	0.48	mg/L	0.0050	1	09/14/22 09:35	09/20/22 10:52	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.018	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:11	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.018	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:25	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0090	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:08	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:08	7440-48-4	
Molybdenum, Total Recoverable	0.027	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:08	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0066	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:37	7440-38-2	
Molybdenum, Dissolved	0.071	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:37	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	292	mg/L	20.0	1		09/14/22 13:39		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 13:39		
Alkalinity, Total as CaCO ₃	292	mg/L	20.0	1		09/14/22 13:39		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	513	mg/L	10.0	1		09/14/22 15:44		H1

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-108-090622		Lab ID: 60410032015		Collected: 09/06/22 11:35	Received: 09/10/22 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:16	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 12:12	18496-25-8	H1
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	58.4	mg/L	10.0	10		09/23/22 16:58	16887-00-6	
Fluoride	1.5	mg/L	0.20	1		09/22/22 16:20	16984-48-8	
Sulfate	27.6	mg/L	10.0	10		09/23/22 16:58	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.4	mg/L	1.0	1		09/22/22 18:50	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	7.7	mg/L	1.0	1		09/21/22 11:27		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-109-090922	Lab ID: 60410032016	Collected: 09/09/22 12:45	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.031	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:40	7440-39-3	
Boron, Total Recoverable	5.2	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:40	7440-42-8	
Calcium, Total Recoverable	495	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:40	7440-70-2	
Hardness, Magnesium (SM 2340B)	514	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:40		
Iron, Total Recoverable	5.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:40	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:40	7439-92-1	
Magnesium, Total Recoverable	125	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:40	7439-95-4	
Manganese, Total Recoverable	3.3	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:40	7439-96-5	
Potassium, Total Recoverable	27.6	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:40	7440-09-7	
Sodium, Total Recoverable	335	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:40	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	4.5	mg/L	0.050	1	09/14/22 09:35	09/20/22 10:54	7439-89-6	
Manganese, Dissolved	3.2	mg/L	0.0050	1	09/14/22 09:35	09/20/22 10:54	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.065	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:13	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.067	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:27	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0076	mg/L	0.0030	3	09/14/22 09:53	09/23/22 14:22	7440-38-2	
Cobalt, Total Recoverable	<0.0030	mg/L	0.0030	3	09/14/22 09:53	09/23/22 14:22	7440-48-4	D3
Molybdenum, Total Recoverable	0.13	mg/L	0.0030	3	09/14/22 09:53	09/23/22 14:22	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0069	mg/L	0.0030	3	09/14/22 09:35	09/23/22 16:40	7440-38-2	
Molybdenum, Dissolved	0.12	mg/L	0.0030	3	09/14/22 09:35	09/23/22 16:40	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	157	mg/L	20.0	1		09/14/22 15:18		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 15:18		
Alkalinity, Total as CaCO ₃	157	mg/L	20.0	1		09/14/22 15:18		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3850	mg/L	100	1		09/16/22 17:09		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-109-090922	Lab ID: 60410032016	Collected: 09/09/22 12:45	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:39	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		09/14/22 11:20		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:34	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	510	mg/L	200	200		09/22/22 16:58	16887-00-6	
Fluoride	2.6	mg/L	0.20	1		09/22/22 16:45	16984-48-8	
Sulfate	1910	mg/L	200	200		09/22/22 16:58	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.3	mg/L	1.0	1		09/22/22 19:04	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.1	mg/L	1.0	1		09/21/22 11:58		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-110-090922	Lab ID: 60410032017	Collected: 09/09/22 11:30	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.031	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:42	7440-39-3	
Boron, Total Recoverable	4.9	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:42	7440-42-8	
Calcium, Total Recoverable	469	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:42	7440-70-2	
Hardness, Magnesium (SM 2340B)	579	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:42		
Iron, Total Recoverable	7.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:42	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:42	7439-92-1	
Magnesium, Total Recoverable	141	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:42	7439-95-4	
Manganese, Total Recoverable	1.6	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:42	7439-96-5	
Potassium, Total Recoverable	31.4	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:42	7440-09-7	
Sodium, Total Recoverable	351	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:42	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	6.6	mg/L	0.050	1	09/14/22 09:35	09/20/22 10:56	7439-89-6	
Manganese, Dissolved	1.6	mg/L	0.0050	1	09/14/22 09:35	09/20/22 10:56	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.093	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:15	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.095	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:35	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0034	mg/L	0.0030	3	09/14/22 09:53	09/23/22 14:27	7440-38-2	
Cobalt, Total Recoverable	<0.0030	mg/L	0.0030	3	09/14/22 09:53	09/23/22 14:27	7440-48-4	D3
Molybdenum, Total Recoverable	0.13	mg/L	0.0030	3	09/14/22 09:53	09/23/22 14:27	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0031	mg/L	0.0030	3	09/14/22 09:35	09/23/22 16:48	7440-38-2	
Molybdenum, Dissolved	0.12	mg/L	0.0030	3	09/14/22 09:35	09/23/22 16:48	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	217	mg/L	20.0	1		09/14/22 15:24		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 15:24		
Alkalinity, Total as CaCO ₃	217	mg/L	20.0	1		09/14/22 15:24		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3840	mg/L	100	1		09/16/22 17:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-110-090922	Lab ID: 60410032017	Collected: 09/09/22 11:30	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:39	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/14/22 11:20		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:34	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	560	mg/L	200	200		09/22/22 17:22	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		09/22/22 17:10	16984-48-8	
Sulfate	2010	mg/L	200	200		09/22/22 17:22	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.7	mg/L	1.0	1		09/22/22 19:19	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.8	mg/L	1.0	1		09/21/22 12:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-112-090722	Lab ID: 60410032018	Collected: 09/07/22 17:15	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.26	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:44	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:44	7440-42-8	
Calcium, Total Recoverable	124	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:44	7440-70-2	
Hardness, Magnesium (SM 2340B)	60.9	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:44		
Iron, Total Recoverable	9.4	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:44	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:44	7439-92-1	
Magnesium, Total Recoverable	14.8	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:44	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:44	7439-96-5	
Potassium, Total Recoverable	5.4	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:44	7440-09-7	
Sodium, Total Recoverable	12.1	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:44	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	7.6	mg/L	0.050	1	09/14/22 09:35	09/20/22 10:58	7439-89-6	
Manganese, Dissolved	1.1	mg/L	0.0050	1	09/14/22 09:35	09/20/22 10:58	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.016	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:17	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.016	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:37	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0029	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:36	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:36	7440-48-4	
Molybdenum, Total Recoverable	0.010	mg/L	0.0010	1	09/14/22 09:53	09/26/22 15:28	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0018	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:54	7440-38-2	
Molybdenum, Dissolved	0.011	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:54	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	338	mg/L	20.0	1		09/14/22 15:05		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 15:05		
Alkalinity, Total as CaCO ₃	338	mg/L	20.0	1		09/14/22 15:05		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	497	mg/L	10.0	1		09/14/22 15:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-112-090722		Lab ID: 60410032018		Collected: 09/07/22 17:15	Received: 09/10/22 08:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:37	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		09/16/22 11:53		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:31	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	69.9	mg/L	10.0	10		09/23/22 17:11	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		09/22/22 17:35	16984-48-8	
Sulfate	50.8	mg/L	10.0	10		09/23/22 17:11	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.2	mg/L	1.0	1		09/22/22 20:02	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	5.5	mg/L	1.0	1		09/21/22 12:59		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-113-090922	Lab ID: 60410032019	Collected: 09/09/22 10:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.049	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:46	7440-39-3	
Boron, Total Recoverable	3.8	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:46	7440-42-8	
Calcium, Total Recoverable	129	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:46	7440-70-2	
Hardness, Magnesium (SM 2340B)	190	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:46		
Iron, Total Recoverable	3.1	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:46	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:46	7439-92-1	
Magnesium, Total Recoverable	46.2	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:46	7439-95-4	
Manganese, Total Recoverable	0.52	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:46	7439-96-5	
Potassium, Total Recoverable	12.7	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:46	7440-09-7	
Sodium, Total Recoverable	91.8	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:46	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.6	mg/L	0.050	1	09/14/22 09:35	09/20/22 11:00	7439-89-6	
Manganese, Dissolved	0.47	mg/L	0.0050	1	09/14/22 09:35	09/20/22 11:00	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.056	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:19	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.059	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:39	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0030	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:39	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:39	7440-48-4	
Molybdenum, Total Recoverable	0.18	mg/L	0.0010	1	09/14/22 09:53	09/26/22 15:30	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0026	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:57	7440-38-2	
Molybdenum, Dissolved	0.19	mg/L	0.0010	1	09/14/22 09:35	09/23/22 16:57	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	338	mg/L	20.0	1		09/14/22 15:35		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 15:35		
Alkalinity, Total as CaCO ₃	338	mg/L	20.0	1		09/14/22 15:35		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	957	mg/L	13.3	1		09/16/22 17:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: MW-113-090922	Lab ID: 60410032019	Collected: 09/09/22 10:20	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:38	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		09/14/22 11:20		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:34	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	67.3	mg/L	10.0	10		09/23/22 17:23	16887-00-6	
Fluoride	8.6	mg/L	0.20	1		09/22/22 18:00	16984-48-8	
Sulfate	303	mg/L	200	200		09/22/22 18:13	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.3	mg/L	1.0	1		09/22/22 20:17	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.7	mg/L	1.0	1		09/21/22 13:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: LEC-CMA-DUP01-090622	Lab ID: 60410032020	Collected: 09/06/22 12:35	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.42	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:48	7440-39-3	
Boron, Total Recoverable	0.76	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:48	7440-42-8	
Calcium, Total Recoverable	126	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:48	7440-70-2	
Hardness, Magnesium (SM 2340B)	199	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:48		
Iron, Total Recoverable	31.7	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:48	7439-89-6	
Lead, Total Recoverable	0.017	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:48	7439-92-1	
Magnesium, Total Recoverable	48.3	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:48	7439-95-4	
Manganese, Total Recoverable	0.64	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:48	7439-96-5	
Potassium, Total Recoverable	18.8	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:48	7440-09-7	
Sodium, Total Recoverable	28.5	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:48	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	1.4	mg/L	0.050	1	09/14/22 09:35	09/20/22 11:02	7439-89-6	
Manganese, Dissolved	0.39	mg/L	0.0050	1	09/14/22 09:35	09/20/22 11:02	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.057	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:27	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.047	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:41	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.093	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:44	7440-38-2	
Cobalt, Total Recoverable	0.0051	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:44	7440-48-4	
Molybdenum, Total Recoverable	0.035	mg/L	0.0010	1	09/14/22 09:53	09/26/22 15:33	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.011	mg/L	0.0010	1	09/14/22 09:35	09/23/22 17:05	7440-38-2	
Molybdenum, Dissolved	0.038	mg/L	0.0010	1	09/14/22 09:35	09/23/22 17:05	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	432	mg/L	20.0	1		09/14/22 13:46		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 13:46		
Alkalinity, Total as CaCO ₃	432	mg/L	20.0	1		09/14/22 13:46		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	647	mg/L	10.0	1		09/14/22 15:44		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: LEC-CMA-DUP01-090622 Lab ID: 60410032020 Collected: 09/06/22 12:35 Received: 09/10/22 08:00 Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	2.0	mg/L	0.20	1		09/23/22 13:17	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	0.41	mg/L	0.050	1		09/14/22 12:13	18496-25-8	H1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	29.5	mg/L	10.0	10		09/23/22 13:11	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		09/22/22 19:16	16984-48-8	M1
Sulfate	93.3	mg/L	10.0	10		09/23/22 13:11	14808-79-8	M1,R1
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	2.5	mg/L	1.0	1		09/22/22 20:31	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	5.9	mg/L	1.0	1		09/21/22 13:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: LEC-CMA-DUP02-090722	Lab ID: 60410032021	Collected: 09/07/22 09:25	Received: 09/10/22 08:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.041	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:50	7440-39-3	
Boron, Total Recoverable	1.7	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:50	7440-42-8	
Calcium, Total Recoverable	304	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:50	7440-70-2	
Hardness, Magnesium (SM 2340B)	128	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:50		
Iron, Total Recoverable	1.1	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:50	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:50	7439-92-1	
Magnesium, Total Recoverable	31.0	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:50	7439-95-4	
Manganese, Total Recoverable	0.68	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:50	7439-96-5	
Potassium, Total Recoverable	50.4	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:50	7440-09-7	
Sodium, Total Recoverable	149	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:50	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	5.0	mg/L	0.050	1	09/14/22 09:35	09/20/22 11:10	7439-89-6	
Manganese, Dissolved	1.5	mg/L	0.0050	1	09/14/22 09:35	09/20/22 11:10	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.056	mg/L	0.010	1	09/14/22 09:53	09/20/22 14:29	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.060	mg/L	0.010	1	09/14/22 09:35	09/20/22 11:43	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:53	09/23/22 14:53	7440-38-2	D3
Cobalt, Total Recoverable	<0.0020	mg/L	0.0020	2	09/14/22 09:53	09/23/22 14:53	7440-48-4	D3
Molybdenum, Total Recoverable	0.037	mg/L	0.0020	2	09/14/22 09:53	09/26/22 15:35	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0032	mg/L	0.0020	2	09/14/22 09:35	09/23/22 17:11	7440-38-2	
Molybdenum, Dissolved	0.057	mg/L	0.0020	2	09/14/22 09:35	09/23/22 17:11	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	415	mg/L	20.0	1		09/14/22 15:12		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/14/22 15:12		
Alkalinity, Total as CaCO ₃	415	mg/L	20.0	1		09/14/22 15:12		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1840	mg/L	20.0	1		09/14/22 15:48		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: LEC-CMA-DUP02-090722 Lab ID: 60410032021 Collected: 09/07/22 09:25 Received: 09/10/22 08:00 Matrix: Water								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:21	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 12:19		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 13:32	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	284	mg/L	200	200		09/22/22 20:44	16887-00-6	
Fluoride	0.46	mg/L	0.20	1		09/22/22 20:32	16984-48-8	
Sulfate	733	mg/L	200	200		09/22/22 20:44	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	2.0	mg/L	1.0	1		09/22/22 21:15	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.5	mg/L	1.0	1		09/21/22 13:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Sample: LEC-CMA-EB-090922	Lab ID: 60410032022	Collected: 09/09/22 13:00	Received: 09/10/22 08:00	Matrix: Water
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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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200.7 Metals, Total

Analytical Method: EPA 200.7 Preparation Method: EPA 200.7

Pace Analytical Services - Kansas City

Barium, Total Recoverable	<0.0050	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:52	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	09/14/22 09:53	09/20/22 13:52	7440-42-8	
Calcium, Total Recoverable	0.21	mg/L	0.20	1	09/14/22 09:53	09/20/22 13:52	7440-70-2	
Hardness, Magnesium (SM 2340B)	<0.21	mg/L	0.21	1	09/14/22 09:53	09/20/22 13:52		
Iron, Total Recoverable	<0.050	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:52	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 09:53	09/20/22 13:52	7439-92-1	
Magnesium, Total Recoverable	<0.050	mg/L	0.050	1	09/14/22 09:53	09/20/22 13:52	7439-95-4	
Manganese, Total Recoverable	<0.0050	mg/L	0.0050	1	09/14/22 09:53	09/20/22 13:52	7439-96-5	
Potassium, Total Recoverable	<0.50	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:52	7440-09-7	
Sodium, Total Recoverable	1.3	mg/L	0.50	1	09/14/22 09:53	09/20/22 13:52	7440-23-5	

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	09/14/22 09:53	09/20/22 14:31	7439-93-2	
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200.8 MET ICPMS

Analytical Method: EPA 200.8 Preparation Method: EPA 200.8

Pace Analytical Services - Kansas City

Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:58	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/23/22 14:58	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 09:53	09/26/22 15:37	7439-98-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807554	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013		

METHOD BLANK:	3212564	Matrix:	Water
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/20/22 11:45	
Boron	mg/L	<0.10	0.10	09/20/22 11:45	
Calcium	mg/L	<0.20	0.20	09/20/22 11:45	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	09/20/22 11:45	
Iron	mg/L	<0.050	0.050	09/20/22 11:45	
Lead	mg/L	<0.010	0.010	09/20/22 11:45	
Magnesium	mg/L	<0.050	0.050	09/20/22 11:45	
Manganese	mg/L	<0.0050	0.0050	09/20/22 11:45	
Potassium	mg/L	<0.50	0.50	09/20/22 11:45	
Sodium	mg/L	<0.50	0.50	09/20/22 11:45	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	101	85-115	
Boron	mg/L	1	0.97	97	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	38.8	94	85-115	
Iron	mg/L	10	10.4	104	85-115	
Lead	mg/L	1	1.0	102	85-115	
Magnesium	mg/L	10	9.4	94	85-115	
Manganese	mg/L	1	1.0	103	85-115	
Potassium	mg/L	10	9.6	96	85-115	
Sodium	mg/L	10	9.6	96	85-115	

Parameter	Units	3212566		3212567		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Barium	mg/L	0.32	1	1	1.3	1.3	101	102	70-130	0	20
Boron	mg/L	0.41	1	1	1.4	1.4	99	101	70-130	1	20
Calcium	mg/L	154	10	10	169	168	151	139	70-130	1	20 M1
Hardness, Magnesium (SM 2340B)	mg/L	92.9	41.2	41.2	134	135	100	102	70-130	1	20
Iron	mg/L	31.2	10	10	42.7	42.3	115	111	70-130	1	20
Lead	mg/L	<0.010	1	1	1.0	1.0	102	103	70-130	1	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212566 3212567											
Parameter	Units	60410032001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Magnesium	mg/L	22.6	10	10	32.6	32.8	100	102	70-130	1	20
Manganese	mg/L	1.3	1	1	2.4	2.5	110	112	70-130	1	20
Potassium	mg/L	5.2	10	10	15.5	15.6	103	104	70-130	1	20
Sodium	mg/L	33.5	10	10	45.2	44.9	117	114	70-130	1	20

MATRIX SPIKE SAMPLE: 3212568								
Parameter	Units	60410032010	Spike	MS	MS	% Rec	Qualifiers	
		Result	Conc.	Result	% Rec	Limits		
Barium	mg/L	0.17	1	1.2	99	70-130		
Boron	mg/L	0.23	1	1.2	96	70-130		
Calcium	mg/L	106	10	112	57	70-130	M1	
Hardness, Magnesium (SM 2340B)	mg/L	95.5	41.2	131	85	70-130		
Iron	mg/L	2.4	10	12.6	102	70-130		
Lead	mg/L	<0.010	1	1.0	102	70-130		
Magnesium	mg/L	23.2	10	31.7	85	70-130		
Manganese	mg/L	0.17	1	1.2	104	70-130		
Potassium	mg/L	6.6	10	16.1	95	70-130		
Sodium	mg/L	14.9	10	24.2	93	70-130		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807558

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021, 60410032022

METHOD BLANK: 3212580

Matrix: Water

Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021, 60410032022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/20/22 13:23	
Boron	mg/L	<0.10	0.10	09/20/22 13:23	
Calcium	mg/L	<0.20	0.20	09/20/22 13:23	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	09/20/22 13:23	
Iron	mg/L	<0.050	0.050	09/20/22 13:23	
Lead	mg/L	<0.010	0.010	09/20/22 13:23	
Magnesium	mg/L	<0.050	0.050	09/20/22 13:23	
Manganese	mg/L	<0.0050	0.0050	09/20/22 13:23	
Potassium	mg/L	<0.50	0.50	09/20/22 13:23	
Sodium	mg/L	<0.50	0.50	09/20/22 13:23	

LABORATORY CONTROL SAMPLE: 3212581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	101	85-115	
Boron	mg/L	1	0.97	97	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	38.2	93	85-115	
Iron	mg/L	10	10.4	104	85-115	
Lead	mg/L	1	1.0	101	85-115	
Magnesium	mg/L	10	9.3	93	85-115	
Manganese	mg/L	1	1.0	104	85-115	
Potassium	mg/L	10	9.6	96	85-115	
Sodium	mg/L	10	9.2	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212582 3212583

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410032014 Result	Spike Conc.	Spike Conc.	MS Result								
Barium	mg/L	0.17	1	1	1.2	1.2	107	103	70-130	3	20		
Boron	mg/L	0.13	1	1	1.2	1.1	104	101	70-130	2	20		
Calcium	mg/L	116	10	10	129	125	137	92	70-130	4	20	M1	
Hardness, Magnesium (SM 2340B)	mg/L	117	41.2	41.2	160	155	103	93	70-130	3	20		
Iron	mg/L	3.0	10	10	14.2	13.9	112	109	70-130	2	20		
Lead	mg/L	<0.010	1	1	1.1	1.1	108	106	70-130	2	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212582		3212583		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		60410032014 Result	MS Spike Conc.	MSD Spike Conc.								
Magnesium	mg/L	28.4	10	10	38.8	37.8	103	93	70-130	3	20	
Manganese	mg/L	0.40	1	1	1.5	1.5	112	108	70-130	2	20	
Potassium	mg/L	8.5	10	10	19.4	18.9	109	104	70-130	3	20	
Sodium	mg/L	5.5	10	10	16.6	15.0	111	95	70-130	10	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807540	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012		

METHOD BLANK:	3212492	Matrix:	Water
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	09/20/22 09:08	
Manganese, Dissolved	mg/L	<0.0050	0.0050	09/20/22 09:08	

LABORATORY CONTROL SAMPLE: 3212493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	9.9	99	85-115	
Manganese, Dissolved	mg/L	1	1.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212494 3212495

Parameter	Units	60410032001		3212495		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Iron, Dissolved	mg/L	5.6	10	15.7	15.6	101	100	70-130	0	20	
Manganese, Dissolved	mg/L	0.98	1	2.0	2.0	99	99	70-130	0	20	

MATRIX SPIKE SAMPLE: 3212496

Parameter	Units	60410032010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	<0.050	10	10.2	102	70-130	
Manganese, Dissolved	mg/L	0.050	1	1.1	103	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807544	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021		

METHOD BLANK:	3212511	Matrix:	Water
Associated Lab Samples:	60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	09/20/22 10:36	
Manganese, Dissolved	mg/L	<0.0050	0.0050	09/20/22 10:36	

LABORATORY CONTROL SAMPLE: 3212512						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	10.2	102	85-115	
Manganese, Dissolved	mg/L	1	1.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212513												3212514	
Parameter	Units	60410032013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Iron, Dissolved	mg/L	<0.050	10	10	10.2	10.4	102	104	70-130	2	20		
Manganese, Dissolved	mg/L	<0.0050	1	1	1.0	1.0	102	104	70-130	2	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410032

QC Batch: 807556 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: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013

METHOD BLANK: 3212573 Matrix: Water
Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/23/22 12:46	
Cobalt	mg/L	<0.0010	0.0010	09/23/22 12:46	
Molybdenum	mg/L	<0.0010	0.0010	09/23/22 12:46	

LABORATORY CONTROL SAMPLE: 3212574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	97	85-115	
Cobalt	mg/L	0.04	0.039	97	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212575 3212576

Parameter	Units	60410032002		3212576		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	0.022	0.04	0.04	0.062	0.061	101	98	70-130	2	20
Cobalt	mg/L	0.18	0.04	0.04	0.22	0.22	97	82	70-130	3	20
Molybdenum	mg/L	0.043	0.04	0.04	0.084	0.080	102	93	70-130	4	20

MATRIX SPIKE SAMPLE: 3212577

Parameter	Units	60410032011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.0059	0.04	0.046	101	70-130	
Cobalt	mg/L	<0.0020	0.04	0.039	98	70-130	
Molybdenum	mg/L	0.16	0.04	0.21	118	70-130	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807560	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: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021, 60410032022

METHOD BLANK:	3212590	Matrix:	Water
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Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021, 60410032022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/23/22 14:03	
Cobalt	mg/L	<0.0010	0.0010	09/23/22 14:03	
Molybdenum	mg/L	<0.0010	0.0010	09/23/22 14:03	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	96	85-115	
Cobalt	mg/L	0.04	0.038	94	85-115	
Molybdenum	mg/L	0.04	0.039	98	85-115	

Parameter	Units	60410032015		3212593		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Arsenic	mg/L	0.0090	0.04	0.04	0.049	0.053	99	111	70-130	9	20
Cobalt	mg/L	<0.0010	0.04	0.04	0.039	0.043	97	108	70-130	12	20
Molybdenum	mg/L	0.027	0.04	0.04	0.070	0.078	106	127	70-130	11	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807541	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012		

METHOD BLANK:	3212498	Matrix:	Water
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	09/23/22 15:04	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	09/26/22 15:42	

LABORATORY CONTROL SAMPLE:	3212499					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.042	104	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.041	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3212500			3212501									
Parameter	Units	60410032002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Arsenic, Dissolved	mg/L	0.0057	0.04	0.04	0.048	0.049	107	108	70-130	1	20		
Molybdenum, Dissolved	mg/L	0.0099	0.04	0.04	0.052	0.052	104	105	70-130	1	20		

MATRIX SPIKE SAMPLE:	3212502											
Parameter	Units	60410032011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers					
Arsenic, Dissolved	mg/L	0.0055	0.04	0.049	109	70-130						
Molybdenum, Dissolved	mg/L	0.21	0.04	0.25	113	70-130						

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807545

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET Dissolved

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021

METHOD BLANK: 3212515

Matrix: Water

Associated Lab Samples: 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	09/23/22 16:18	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	09/23/22 16:18	

LABORATORY CONTROL SAMPLE: 3212516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.041	102	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.043	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212517 3212518

Parameter	Units	3212517		3212518		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410032014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	mg/L	0.0053	0.04	0.04	0.048	107	105	70-130	1	20	
Molybdenum, Dissolved	mg/L	0.026	0.04	0.04	0.072	115	114	70-130	1	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807555	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013		

METHOD BLANK:	3212569	Matrix:	Water
Associated Lab Samples:	60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/20/22 12:36	

LABORATORY CONTROL SAMPLE: 3212570						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212571												3212572	
Parameter	Units	60410032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Lithium	mg/L	0.012	1	1	1.0	1.1	102	104	75-125	2	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807559	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021, 60410032022

METHOD BLANK: 3212586 Matrix: Water

Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021, 60410032022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/20/22 14:02	

LABORATORY CONTROL SAMPLE: 3212587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212588 3212589

Parameter	Units	60410032014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.023	1	1	1.1	1.1	110	106	75-125	3	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807542	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012

METHOD BLANK: 3212505 Matrix: Water

Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	09/20/22 09:57	

LABORATORY CONTROL SAMPLE: 3212506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212507 3212508

Parameter	Units	60410032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	0.014	1	1	1.0	1.0	102	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807546	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021

METHOD BLANK: 3212519 Matrix: Water

Associated Lab Samples: 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	09/20/22 11:15	

LABORATORY CONTROL SAMPLE: 3212520

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212521 3212522

Parameter	Units	60410032013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	0.012	1	1	1.0	1.0	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807526	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032003, 60410032006, 60410032007, 60410032009, 60410032010, 60410032011, 60410032014, 60410032015, 60410032020

METHOD BLANK: 3212432 Matrix: Water

Associated Lab Samples: 60410032003, 60410032006, 60410032007, 60410032009, 60410032010, 60410032011, 60410032014, 60410032015, 60410032020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/14/22 11:04	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/14/22 11:04	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/14/22 11:04	

LABORATORY CONTROL SAMPLE: 3212433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	492	98	90-110	

SAMPLE DUPLICATE: 3212434

Parameter	Units	60410083001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	93.9	92.1	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	93.9	92.1	2	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<4.6	ND		10	

SAMPLE DUPLICATE: 3212435

Parameter	Units	60410085004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	371	368	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	371	368	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	<4.6	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807527	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032004, 60410032005, 60410032008, 60410032012, 60410032013, 60410032016, 60410032017, 60410032018, 60410032019, 60410032021

METHOD BLANK: 3212436 Matrix: Water

Associated Lab Samples: 60410032001, 60410032002, 60410032004, 60410032005, 60410032008, 60410032012, 60410032013, 60410032016, 60410032017, 60410032018, 60410032019, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	09/14/22 13:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/14/22 13:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/14/22 13:52	

LABORATORY CONTROL SAMPLE: 3212437

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

SAMPLE DUPLICATE: 3212438

Parameter	Units	60410032001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	391	388	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	391	388	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3212439

Parameter	Units	60410032017 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	217	214	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	217	214	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807697

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032003, 60410032006, 60410032007, 60410032009, 60410032010, 60410032011, 60410032014, 60410032015, 60410032020

METHOD BLANK: 3213111

Matrix: Water

Associated Lab Samples: 60410032003, 60410032006, 60410032007, 60410032009, 60410032010, 60410032011, 60410032014, 60410032015, 60410032020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/14/22 15:43	

LABORATORY CONTROL SAMPLE: 3213112

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

SAMPLE DUPLICATE: 3213113

Parameter	Units	60410032003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	608	610	0	10	

SAMPLE DUPLICATE: 3213114

Parameter	Units	60409784004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	409	972	81	10 D6	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807698	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032004, 60410032005, 60410032008, 60410032012, 60410032013, 60410032018, 60410032021

METHOD BLANK: 3213115 Matrix: Water

Associated Lab Samples: 60410032001, 60410032002, 60410032004, 60410032005, 60410032008, 60410032012, 60410032013, 60410032018, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/14/22 15:45	

LABORATORY CONTROL SAMPLE: 3213116

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

SAMPLE DUPLICATE: 3213117

Parameter	Units	60410030004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2740	2650	3	10	

SAMPLE DUPLICATE: 3213118

Parameter	Units	60410032013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	284	288	1	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	808022	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032016, 60410032017, 60410032019

METHOD BLANK: 3214376 Matrix: Water

Associated Lab Samples: 60410032016, 60410032017, 60410032019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/16/22 17:09	

LABORATORY CONTROL SAMPLE: 3214377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	994	99	80-120	

SAMPLE DUPLICATE: 3214378

Parameter	Units	60409977004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1950	1850	5	10	

SAMPLE DUPLICATE: 3214379

Parameter	Units	60410045005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	27900	28300	1	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 808989

Analysis Method: SM 3500-Fe B#4

QC Batch Method: SM 3500-Fe B#4

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032014, 60410032015, 60410032020, 60410032021

METHOD BLANK: 3217946

Matrix: Water

Associated Lab Samples: 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032014, 60410032015, 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/22 13:15	H6

LABORATORY CONTROL SAMPLE: 3217947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3217948

Parameter	Units	60410032015 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410032

QC Batch: 809175 Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4 Analysis Description: Iron, Ferrous
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60410032001, 60410032002, 60410032013, 60410032016, 60410032017, 60410032018, 60410032019

METHOD BLANK: 3218645 Matrix: Water
Associated Lab Samples: 60410032001, 60410032002, 60410032013, 60410032016, 60410032017, 60410032018, 60410032019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/22 13:35	H6

LABORATORY CONTROL SAMPLE: 3218646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3218647

Parameter	Units	60410643002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807538	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032014, 60410032015, 60410032020, 60410032021

SAMPLE DUPLICATE: 3212481

Parameter	Units	60410032015 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	807539	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032016, 60410032017, 60410032019

SAMPLE DUPLICATE: 3212485

Parameter	Units	60410032019 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807931

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032013, 60410032018

SAMPLE DUPLICATE: 3214114

Parameter	Units	60410030003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.6	3	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807595

Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D

Analysis Description: 4500S2D Sulfide, Total

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032003, 60410032006, 60410032007, 60410032009, 60410032010, 60410032011, 60410032014, 60410032015, 60410032020

METHOD BLANK: 3212733

Matrix: Water

Associated Lab Samples: 60410032003, 60410032006, 60410032007, 60410032009, 60410032010, 60410032011, 60410032014, 60410032015, 60410032020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	09/14/22 12:08	

LABORATORY CONTROL SAMPLE: 3212734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212735 3212736

Parameter	Units	60410032003		60410032006		60410032010		60410032011		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.5	0.41	0.41	77	77	75-125	0	20	H1

SAMPLE DUPLICATE: 3212737

Parameter	Units	60410032006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.14	0.14	1	20	H1

SAMPLE DUPLICATE: 3212738

Parameter	Units	60409784001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807596 Analysis Method: SM 4500-S-2 D
 QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
 Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032004, 60410032005, 60410032008

METHOD BLANK: 3212741 Matrix: Water
 Associated Lab Samples: 60410032001, 60410032002, 60410032004, 60410032005, 60410032008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	09/14/22 12:19	

LABORATORY CONTROL SAMPLE: 3212742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212743 3212744

Parameter	Units	60409845001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	ND	0.5	0.5	0.44	0.44	83	83	75-125	0	20	

SAMPLE DUPLICATE: 3212745

Parameter	Units	60409845002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	10.4	10.4	0	20	

SAMPLE DUPLICATE: 3212746

Parameter	Units	60409847008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	2.5	2.5	0	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 807597 Analysis Method: SM 4500-S-2 D
 QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60410032012, 60410032013, 60410032016, 60410032017, 60410032018, 60410032019, 60410032021

METHOD BLANK: 3212747 Matrix: Water
 Associated Lab Samples: 60410032012, 60410032013, 60410032016, 60410032017, 60410032018, 60410032019, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	09/14/22 13:15	

LABORATORY CONTROL SAMPLE: 3212748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212749 3212750

Parameter	Units	60410032012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.37	0.37	71	71	75-125	0	20	M1

SAMPLE DUPLICATE: 3212751

Parameter	Units	60410032013 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.062	0.062	0	20	

SAMPLE DUPLICATE: 3212752

Parameter	Units	60410159001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	10.3	10.3	0	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 808656 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006

METHOD BLANK: 3216506 Matrix: Water
 Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/21/22 16:21	
Fluoride	mg/L	<0.20	0.20	09/21/22 16:21	
Sulfate	mg/L	<1.0	1.0	09/21/22 16:21	

METHOD BLANK: 3218103 Matrix: Water
 Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/21/22 08:57	
Fluoride	mg/L	<0.20	0.20	09/21/22 08:57	
Sulfate	mg/L	<1.0	1.0	09/21/22 08:57	

METHOD BLANK: 3219013 Matrix: Water
 Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/22 01:38	
Fluoride	mg/L	<0.20	0.20	09/23/22 01:38	
Sulfate	mg/L	<1.0	1.0	09/23/22 01:38	

LABORATORY CONTROL SAMPLE: 3216507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	5	4.7	94	90-110	

LABORATORY CONTROL SAMPLE: 3218104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

LABORATORY CONTROL SAMPLE: 3219014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3216508 3216509

Parameter	Units	60409930004		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	85.2	100	100	185	184	100	98	80-120	1	15		
Fluoride	mg/L	ND	50	50	43.5	43.4	87	87	80-120	0	15		
Sulfate	mg/L	ND	100	100	116	115	97	96	80-120	1	15		

MATRIX SPIKE SAMPLE: 3216510

Parameter	Units	60410087001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	109	50	159	101	80-120	
Fluoride	mg/L	<0.20	2.5	2.2	89	80-120	
Sulfate	mg/L	427	250	665	95	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410032

QC Batch: 808857 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019

METHOD BLANK: 3217351 Matrix: Water
Associated Lab Samples: 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/22/22 08:15	
Fluoride	mg/L	<0.20	0.20	09/22/22 08:15	
Sulfate	mg/L	<1.0	1.0	09/22/22 08:15	

METHOD BLANK: 3219432 Matrix: Water
Associated Lab Samples: 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013, 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/22 11:30	
Fluoride	mg/L	<0.20	0.20	09/23/22 11:30	
Sulfate	mg/L	<1.0	1.0	09/23/22 11:30	

LABORATORY CONTROL SAMPLE: 3217352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

LABORATORY CONTROL SAMPLE: 3219433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	93	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217353 3217354

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Chloride	mg/L	224	1000	1000	1700	1700	1690	147	146	80-120	1	15	M1
Fluoride	mg/L	ND	2.5	2.5	4.1	4.1	4.3	163	170	80-120	4	15	M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217353												3217354	
Parameter	Units	60410159001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
Sulfate	mg/L	875	1000	1000	2640	2630	177	175	80-120	1	15	M1	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch: 808858

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032020, 60410032021

METHOD BLANK: 3217356

Matrix: Water

Associated Lab Samples: 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/22/22 18:51	
Fluoride	mg/L	<0.20	0.20	09/22/22 18:51	
Sulfate	mg/L	<1.0	1.0	09/22/22 18:51	

METHOD BLANK: 3219441

Matrix: Water

Associated Lab Samples: 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/23/22 11:30	
Fluoride	mg/L	<0.20	0.20	09/23/22 11:30	
Sulfate	mg/L	<1.0	1.0	09/23/22 11:30	

LABORATORY CONTROL SAMPLE: 3217357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 3219442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	93	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217358

3217359

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410032020	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	29.5	50	50	75.8	83.6	92	108	80-120	10	15		
Fluoride	mg/L	3.7	2.5	2.5	7.2	7.6	140	157	80-120	6	15	M1	
Sulfate	mg/L	93.3	50	50	143	177	100	167	80-120	21	15	M1,R1	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	808995	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013, 60410032014, 60410032015, 60410032016, 60410032017

METHOD BLANK: 3217971 Matrix: Water

Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013, 60410032014, 60410032015, 60410032016, 60410032017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	09/22/22 12:35	

LABORATORY CONTROL SAMPLE: 3217972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	109	80-120	

MATRIX SPIKE SAMPLE: 3217973

Parameter	Units	60410033005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.4	5	7.1	93	80-120	

SAMPLE DUPLICATE: 3217974

Parameter	Units	60410033007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	1	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	808998	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032018, 60410032019, 60410032020, 60410032021

METHOD BLANK: 3217980 Matrix: Water
Associated Lab Samples: 60410032018, 60410032019, 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	09/22/22 19:33	

LABORATORY CONTROL SAMPLE: 3217981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217983 3217984

Parameter	Units	10625053001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	6.6	5	5	11.5	11.4	97	96	80-120	0	25	

SAMPLE DUPLICATE: 3217982

Parameter	Units	10625053001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	6.6	6.5	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	808698	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021

METHOD BLANK: 3216653 Matrix: Water

Associated Lab Samples: 60410032014, 60410032015, 60410032016, 60410032017, 60410032018, 60410032019, 60410032020, 60410032021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/21/22 09:39	

LABORATORY CONTROL SAMPLE: 3216654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	102	80-120	

MATRIX SPIKE SAMPLE: 3216655

Parameter	Units	10625449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.1	5	7.3	105	80-120	

SAMPLE DUPLICATE: 3216656

Parameter	Units	60410032015 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	7.7	7.9	2	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

QC Batch:	808999	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013

METHOD BLANK: 3217986 Matrix: Water

Associated Lab Samples: 60410032001, 60410032002, 60410032003, 60410032004, 60410032005, 60410032006, 60410032007, 60410032008, 60410032009, 60410032010, 60410032011, 60410032012, 60410032013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/22/22 12:39	

LABORATORY CONTROL SAMPLE: 3217987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	101	80-120	

MATRIX SPIKE SAMPLE: 3217988

Parameter	Units	60410033007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.2	5	8.0	96	80-120	

SAMPLE DUPLICATE: 3217989

Parameter	Units	60410032002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.9	2.9	0	25	

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QUALIFIERS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

H1 Analysis conducted outside the EPA method holding time.

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

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

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032001	MW-A-090722	EPA 200.7	807554	EPA 200.7	807618
60410032002	MW-B-090722	EPA 200.7	807554	EPA 200.7	807618
60410032003	MW-C-090622	EPA 200.7	807554	EPA 200.7	807618
60410032004	MW-D-090722	EPA 200.7	807554	EPA 200.7	807618
60410032005	MW-G-090722	EPA 200.7	807554	EPA 200.7	807618
60410032006	MW-M-090622	EPA 200.7	807554	EPA 200.7	807618
60410032007	MW-N-090622	EPA 200.7	807554	EPA 200.7	807618
60410032008	MW-O-090722	EPA 200.7	807554	EPA 200.7	807618
60410032009	MW-P-090622	EPA 200.7	807554	EPA 200.7	807618
60410032010	MW-101-090622	EPA 200.7	807554	EPA 200.7	807618
60410032011	MW-103-090622	EPA 200.7	807554	EPA 200.7	807618
60410032012	MW-104-090722	EPA 200.7	807554	EPA 200.7	807618
60410032013	MW-106-090722	EPA 200.7	807554	EPA 200.7	807618
60410032014	MW-107-090622	EPA 200.7	807558	EPA 200.7	807623
60410032015	MW-108-090622	EPA 200.7	807558	EPA 200.7	807623
60410032016	MW-109-090922	EPA 200.7	807558	EPA 200.7	807623
60410032017	MW-110-090922	EPA 200.7	807558	EPA 200.7	807623
60410032018	MW-112-090722	EPA 200.7	807558	EPA 200.7	807623
60410032019	MW-113-090922	EPA 200.7	807558	EPA 200.7	807623
60410032020	LEC-CMA-DUP01-090622	EPA 200.7	807558	EPA 200.7	807623
60410032021	LEC-CMA-DUP02-090722	EPA 200.7	807558	EPA 200.7	807623
60410032022	LEC-CMA-EB-090922	EPA 200.7	807558	EPA 200.7	807623
60410032001	MW-A-090722	EPA 200.7	807540	EPA 200.7	807584
60410032002	MW-B-090722	EPA 200.7	807540	EPA 200.7	807584
60410032003	MW-C-090622	EPA 200.7	807540	EPA 200.7	807584
60410032004	MW-D-090722	EPA 200.7	807540	EPA 200.7	807584
60410032005	MW-G-090722	EPA 200.7	807540	EPA 200.7	807584
60410032006	MW-M-090622	EPA 200.7	807540	EPA 200.7	807584
60410032007	MW-N-090622	EPA 200.7	807540	EPA 200.7	807584
60410032008	MW-O-090722	EPA 200.7	807540	EPA 200.7	807584
60410032009	MW-P-090622	EPA 200.7	807540	EPA 200.7	807584
60410032010	MW-101-090622	EPA 200.7	807540	EPA 200.7	807584
60410032011	MW-103-090622	EPA 200.7	807540	EPA 200.7	807584
60410032012	MW-104-090722	EPA 200.7	807540	EPA 200.7	807584
60410032013	MW-106-090722	EPA 200.7	807544	EPA 200.7	807592
60410032014	MW-107-090622	EPA 200.7	807544	EPA 200.7	807592
60410032015	MW-108-090622	EPA 200.7	807544	EPA 200.7	807592
60410032016	MW-109-090922	EPA 200.7	807544	EPA 200.7	807592
60410032017	MW-110-090922	EPA 200.7	807544	EPA 200.7	807592
60410032018	MW-112-090722	EPA 200.7	807544	EPA 200.7	807592
60410032019	MW-113-090922	EPA 200.7	807544	EPA 200.7	807592
60410032020	LEC-CMA-DUP01-090622	EPA 200.7	807544	EPA 200.7	807592
60410032021	LEC-CMA-DUP02-090722	EPA 200.7	807544	EPA 200.7	807592
60410032001	MW-A-090722	EPA 3010	807555	EPA 6010	807619
60410032002	MW-B-090722	EPA 3010	807555	EPA 6010	807619
60410032003	MW-C-090622	EPA 3010	807555	EPA 6010	807619
60410032004	MW-D-090722	EPA 3010	807555	EPA 6010	807619

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032005	MW-G-090722	EPA 3010	807555	EPA 6010	807619
60410032006	MW-M-090622	EPA 3010	807555	EPA 6010	807619
60410032007	MW-N-090622	EPA 3010	807555	EPA 6010	807619
60410032008	MW-O-090722	EPA 3010	807555	EPA 6010	807619
60410032009	MW-P-090622	EPA 3010	807555	EPA 6010	807619
60410032010	MW-101-090622	EPA 3010	807555	EPA 6010	807619
60410032011	MW-103-090622	EPA 3010	807555	EPA 6010	807619
60410032012	MW-104-090722	EPA 3010	807555	EPA 6010	807619
60410032013	MW-106-090722	EPA 3010	807555	EPA 6010	807619
60410032014	MW-107-090622	EPA 3010	807559	EPA 6010	807625
60410032015	MW-108-090622	EPA 3010	807559	EPA 6010	807625
60410032016	MW-109-090922	EPA 3010	807559	EPA 6010	807625
60410032017	MW-110-090922	EPA 3010	807559	EPA 6010	807625
60410032018	MW-112-090722	EPA 3010	807559	EPA 6010	807625
60410032019	MW-113-090922	EPA 3010	807559	EPA 6010	807625
60410032020	LEC-CMA-DUP01-090622	EPA 3010	807559	EPA 6010	807625
60410032021	LEC-CMA-DUP02-090722	EPA 3010	807559	EPA 6010	807625
60410032022	LEC-CMA-EB-090922	EPA 3010	807559	EPA 6010	807625
60410032001	MW-A-090722	EPA 3010	807542	EPA 6010	807590
60410032002	MW-B-090722	EPA 3010	807542	EPA 6010	807590
60410032003	MW-C-090622	EPA 3010	807542	EPA 6010	807590
60410032004	MW-D-090722	EPA 3010	807542	EPA 6010	807590
60410032005	MW-G-090722	EPA 3010	807542	EPA 6010	807590
60410032006	MW-M-090622	EPA 3010	807542	EPA 6010	807590
60410032007	MW-N-090622	EPA 3010	807542	EPA 6010	807590
60410032008	MW-O-090722	EPA 3010	807542	EPA 6010	807590
60410032009	MW-P-090622	EPA 3010	807542	EPA 6010	807590
60410032010	MW-101-090622	EPA 3010	807542	EPA 6010	807590
60410032011	MW-103-090622	EPA 3010	807542	EPA 6010	807590
60410032012	MW-104-090722	EPA 3010	807542	EPA 6010	807590
60410032013	MW-106-090722	EPA 3010	807546	EPA 6010	807594
60410032014	MW-107-090622	EPA 3010	807546	EPA 6010	807594
60410032015	MW-108-090622	EPA 3010	807546	EPA 6010	807594
60410032016	MW-109-090922	EPA 3010	807546	EPA 6010	807594
60410032017	MW-110-090922	EPA 3010	807546	EPA 6010	807594
60410032018	MW-112-090722	EPA 3010	807546	EPA 6010	807594
60410032019	MW-113-090922	EPA 3010	807546	EPA 6010	807594
60410032020	LEC-CMA-DUP01-090622	EPA 3010	807546	EPA 6010	807594
60410032021	LEC-CMA-DUP02-090722	EPA 3010	807546	EPA 6010	807594
60410032001	MW-A-090722	EPA 200.8	807556	EPA 200.8	807621
60410032002	MW-B-090722	EPA 200.8	807556	EPA 200.8	807621
60410032003	MW-C-090622	EPA 200.8	807556	EPA 200.8	807621
60410032004	MW-D-090722	EPA 200.8	807556	EPA 200.8	807621
60410032005	MW-G-090722	EPA 200.8	807556	EPA 200.8	807621
60410032006	MW-M-090622	EPA 200.8	807556	EPA 200.8	807621
60410032007	MW-N-090622	EPA 200.8	807556	EPA 200.8	807621
60410032008	MW-O-090722	EPA 200.8	807556	EPA 200.8	807621

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032009	MW-P-090622	EPA 200.8	807556	EPA 200.8	807621
60410032010	MW-101-090622	EPA 200.8	807556	EPA 200.8	807621
60410032011	MW-103-090622	EPA 200.8	807556	EPA 200.8	807621
60410032012	MW-104-090722	EPA 200.8	807556	EPA 200.8	807621
60410032013	MW-106-090722	EPA 200.8	807556	EPA 200.8	807621
60410032014	MW-107-090622	EPA 200.8	807560	EPA 200.8	807626
60410032015	MW-108-090622	EPA 200.8	807560	EPA 200.8	807626
60410032016	MW-109-090922	EPA 200.8	807560	EPA 200.8	807626
60410032017	MW-110-090922	EPA 200.8	807560	EPA 200.8	807626
60410032018	MW-112-090722	EPA 200.8	807560	EPA 200.8	807626
60410032019	MW-113-090922	EPA 200.8	807560	EPA 200.8	807626
60410032020	LEC-CMA-DUP01-090622	EPA 200.8	807560	EPA 200.8	807626
60410032021	LEC-CMA-DUP02-090722	EPA 200.8	807560	EPA 200.8	807626
60410032022	LEC-CMA-EB-090922	EPA 200.8	807560	EPA 200.8	807626
60410032001	MW-A-090722	EPA 200.8	807541	EPA 200.8	807585
60410032002	MW-B-090722	EPA 200.8	807541	EPA 200.8	807585
60410032003	MW-C-090622	EPA 200.8	807541	EPA 200.8	807585
60410032004	MW-D-090722	EPA 200.8	807541	EPA 200.8	807585
60410032005	MW-G-090722	EPA 200.8	807541	EPA 200.8	807585
60410032006	MW-M-090622	EPA 200.8	807541	EPA 200.8	807585
60410032007	MW-N-090622	EPA 200.8	807541	EPA 200.8	807585
60410032008	MW-O-090722	EPA 200.8	807541	EPA 200.8	807585
60410032009	MW-P-090622	EPA 200.8	807541	EPA 200.8	807585
60410032010	MW-101-090622	EPA 200.8	807541	EPA 200.8	807585
60410032011	MW-103-090622	EPA 200.8	807541	EPA 200.8	807585
60410032012	MW-104-090722	EPA 200.8	807541	EPA 200.8	807585
60410032013	MW-106-090722	EPA 200.8	807545	EPA 200.8	807593
60410032014	MW-107-090622	EPA 200.8	807545	EPA 200.8	807593
60410032015	MW-108-090622	EPA 200.8	807545	EPA 200.8	807593
60410032016	MW-109-090922	EPA 200.8	807545	EPA 200.8	807593
60410032017	MW-110-090922	EPA 200.8	807545	EPA 200.8	807593
60410032018	MW-112-090722	EPA 200.8	807545	EPA 200.8	807593
60410032019	MW-113-090922	EPA 200.8	807545	EPA 200.8	807593
60410032020	LEC-CMA-DUP01-090622	EPA 200.8	807545	EPA 200.8	807593
60410032021	LEC-CMA-DUP02-090722	EPA 200.8	807545	EPA 200.8	807593
60410032001	MW-A-090722	SM 2320B	807527		
60410032002	MW-B-090722	SM 2320B	807527		
60410032003	MW-C-090622	SM 2320B	807526		
60410032004	MW-D-090722	SM 2320B	807527		
60410032005	MW-G-090722	SM 2320B	807527		
60410032006	MW-M-090622	SM 2320B	807526		
60410032007	MW-N-090622	SM 2320B	807526		
60410032008	MW-O-090722	SM 2320B	807527		
60410032009	MW-P-090622	SM 2320B	807526		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032010	MW-101-090622	SM 2320B	807526		
60410032011	MW-103-090622	SM 2320B	807526		
60410032012	MW-104-090722	SM 2320B	807527		
60410032013	MW-106-090722	SM 2320B	807527		
60410032014	MW-107-090622	SM 2320B	807526		
60410032015	MW-108-090622	SM 2320B	807526		
60410032016	MW-109-090922	SM 2320B	807527		
60410032017	MW-110-090922	SM 2320B	807527		
60410032018	MW-112-090722	SM 2320B	807527		
60410032019	MW-113-090922	SM 2320B	807527		
60410032020	LEC-CMA-DUP01-090622	SM 2320B	807526		
60410032021	LEC-CMA-DUP02-090722	SM 2320B	807527		
60410032001	MW-A-090722	SM 2540C	807698		
60410032002	MW-B-090722	SM 2540C	807698		
60410032003	MW-C-090622	SM 2540C	807697		
60410032004	MW-D-090722	SM 2540C	807698		
60410032005	MW-G-090722	SM 2540C	807698		
60410032006	MW-M-090622	SM 2540C	807697		
60410032007	MW-N-090622	SM 2540C	807697		
60410032008	MW-O-090722	SM 2540C	807698		
60410032009	MW-P-090622	SM 2540C	807697		
60410032010	MW-101-090622	SM 2540C	807697		
60410032011	MW-103-090622	SM 2540C	807697		
60410032012	MW-104-090722	SM 2540C	807698		
60410032013	MW-106-090722	SM 2540C	807698		
60410032014	MW-107-090622	SM 2540C	807697		
60410032015	MW-108-090622	SM 2540C	807697		
60410032016	MW-109-090922	SM 2540C	808022		
60410032017	MW-110-090922	SM 2540C	808022		
60410032018	MW-112-090722	SM 2540C	807698		
60410032019	MW-113-090922	SM 2540C	808022		
60410032020	LEC-CMA-DUP01-090622	SM 2540C	807697		
60410032021	LEC-CMA-DUP02-090722	SM 2540C	807698		
60410032001	MW-A-090722	SM 3500-Fe B#4	809175		
60410032002	MW-B-090722	SM 3500-Fe B#4	809175		
60410032003	MW-C-090622	SM 3500-Fe B#4	808989		
60410032004	MW-D-090722	SM 3500-Fe B#4	808989		
60410032005	MW-G-090722	SM 3500-Fe B#4	808989		
60410032006	MW-M-090622	SM 3500-Fe B#4	808989		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032007	MW-N-090622	SM 3500-Fe B#4	808989		
60410032008	MW-O-090722	SM 3500-Fe B#4	808989		
60410032009	MW-P-090622	SM 3500-Fe B#4	808989		
60410032010	MW-101-090622	SM 3500-Fe B#4	808989		
60410032011	MW-103-090622	SM 3500-Fe B#4	808989		
60410032012	MW-104-090722	SM 3500-Fe B#4	808989		
60410032013	MW-106-090722	SM 3500-Fe B#4	809175		
60410032014	MW-107-090622	SM 3500-Fe B#4	808989		
60410032015	MW-108-090622	SM 3500-Fe B#4	808989		
60410032016	MW-109-090922	SM 3500-Fe B#4	809175		
60410032017	MW-110-090922	SM 3500-Fe B#4	809175		
60410032018	MW-112-090722	SM 3500-Fe B#4	809175		
60410032019	MW-113-090922	SM 3500-Fe B#4	809175		
60410032020	LEC-CMA-DUP01-090622	SM 3500-Fe B#4	808989		
60410032021	LEC-CMA-DUP02-090722	SM 3500-Fe B#4	808989		
60410032001	MW-A-090722	SM 4500-H+B	807931		
60410032002	MW-B-090722	SM 4500-H+B	807931		
60410032003	MW-C-090622	SM 4500-H+B	807538		
60410032004	MW-D-090722	SM 4500-H+B	807538		
60410032005	MW-G-090722	SM 4500-H+B	807538		
60410032006	MW-M-090622	SM 4500-H+B	807538		
60410032007	MW-N-090622	SM 4500-H+B	807538		
60410032008	MW-O-090722	SM 4500-H+B	807538		
60410032009	MW-P-090622	SM 4500-H+B	807538		
60410032010	MW-101-090622	SM 4500-H+B	807538		
60410032011	MW-103-090622	SM 4500-H+B	807538		
60410032012	MW-104-090722	SM 4500-H+B	807538		
60410032013	MW-106-090722	SM 4500-H+B	807931		
60410032014	MW-107-090622	SM 4500-H+B	807538		
60410032015	MW-108-090622	SM 4500-H+B	807538		
60410032016	MW-109-090922	SM 4500-H+B	807539		
60410032017	MW-110-090922	SM 4500-H+B	807539		
60410032018	MW-112-090722	SM 4500-H+B	807931		
60410032019	MW-113-090922	SM 4500-H+B	807539		
60410032020	LEC-CMA-DUP01-090622	SM 4500-H+B	807538		
60410032021	LEC-CMA-DUP02-090722	SM 4500-H+B	807538		
60410032001	MW-A-090722	SM 4500-S-2 D	807596		
60410032002	MW-B-090722	SM 4500-S-2 D	807596		
60410032003	MW-C-090622	SM 4500-S-2 D	807596		
60410032004	MW-D-090722	SM 4500-S-2 D	807596		
60410032005	MW-G-090722	SM 4500-S-2 D	807596		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032006	MW-M-090622	SM 4500-S-2 D	807595		
60410032007	MW-N-090622	SM 4500-S-2 D	807595		
60410032008	MW-O-090722	SM 4500-S-2 D	807596		
60410032009	MW-P-090622	SM 4500-S-2 D	807595		
60410032010	MW-101-090622	SM 4500-S-2 D	807595		
60410032011	MW-103-090622	SM 4500-S-2 D	807595		
60410032012	MW-104-090722	SM 4500-S-2 D	807597		
60410032013	MW-106-090722	SM 4500-S-2 D	807597		
60410032014	MW-107-090622	SM 4500-S-2 D	807595		
60410032015	MW-108-090622	SM 4500-S-2 D	807595		
60410032016	MW-109-090922	SM 4500-S-2 D	807597		
60410032017	MW-110-090922	SM 4500-S-2 D	807597		
60410032018	MW-112-090722	SM 4500-S-2 D	807597		
60410032019	MW-113-090922	SM 4500-S-2 D	807597		
60410032020	LEC-CMA-DUP01-090622	SM 4500-S-2 D	807595		
60410032021	LEC-CMA-DUP02-090722	SM 4500-S-2 D	807597		
60410032001	MW-A-090722	EPA 300.0	808656		
60410032002	MW-B-090722	EPA 300.0	808656		
60410032003	MW-C-090622	EPA 300.0	808656		
60410032004	MW-D-090722	EPA 300.0	808656		
60410032005	MW-G-090722	EPA 300.0	808656		
60410032006	MW-M-090622	EPA 300.0	808656		
60410032007	MW-N-090622	EPA 300.0	808857		
60410032008	MW-O-090722	EPA 300.0	808857		
60410032009	MW-P-090622	EPA 300.0	808857		
60410032010	MW-101-090622	EPA 300.0	808857		
60410032011	MW-103-090622	EPA 300.0	808857		
60410032012	MW-104-090722	EPA 300.0	808857		
60410032013	MW-106-090722	EPA 300.0	808857		
60410032014	MW-107-090622	EPA 300.0	808857		
60410032015	MW-108-090622	EPA 300.0	808857		
60410032016	MW-109-090922	EPA 300.0	808857		
60410032017	MW-110-090922	EPA 300.0	808857		
60410032018	MW-112-090722	EPA 300.0	808857		
60410032019	MW-113-090922	EPA 300.0	808857		
60410032020	LEC-CMA-DUP01-090622	EPA 300.0	808858		
60410032021	LEC-CMA-DUP02-090722	EPA 300.0	808858		
60410032001	MW-A-090722	SM 5310C	808995		
60410032002	MW-B-090722	SM 5310C	808995		
60410032003	MW-C-090622	SM 5310C	808995		
60410032004	MW-D-090722	SM 5310C	808995		
60410032005	MW-G-090722	SM 5310C	808995		
60410032006	MW-M-090622	SM 5310C	808995		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410032007	MW-N-090622	SM 5310C	808995		
60410032008	MW-O-090722	SM 5310C	808995		
60410032009	MW-P-090622	SM 5310C	808995		
60410032010	MW-101-090622	SM 5310C	808995		
60410032011	MW-103-090622	SM 5310C	808995		
60410032012	MW-104-090722	SM 5310C	808995		
60410032013	MW-106-090722	SM 5310C	808995		
60410032014	MW-107-090622	SM 5310C	808995		
60410032015	MW-108-090622	SM 5310C	808995		
60410032016	MW-109-090922	SM 5310C	808995		
60410032017	MW-110-090922	SM 5310C	808995		
60410032018	MW-112-090722	SM 5310C	808998		
60410032019	MW-113-090922	SM 5310C	808998		
60410032020	LEC-CMA-DUP01-090622	SM 5310C	808998		
60410032021	LEC-CMA-DUP02-090722	SM 5310C	808998		
60410032001	MW-A-090722	SM 5310C	808999		
60410032002	MW-B-090722	SM 5310C	808999		
60410032003	MW-C-090622	SM 5310C	808999		
60410032004	MW-D-090722	SM 5310C	808999		
60410032005	MW-G-090722	SM 5310C	808999		
60410032006	MW-M-090622	SM 5310C	808999		
60410032007	MW-N-090622	SM 5310C	808999		
60410032008	MW-O-090722	SM 5310C	808999		
60410032009	MW-P-090622	SM 5310C	808999		
60410032010	MW-101-090622	SM 5310C	808999		
60410032011	MW-103-090622	SM 5310C	808999		
60410032012	MW-104-090722	SM 5310C	808999		
60410032013	MW-106-090722	SM 5310C	808999		
60410032014	MW-107-090622	SM 5310C	808698		
60410032015	MW-108-090622	SM 5310C	808698		
60410032016	MW-109-090922	SM 5310C	808698		
60410032017	MW-110-090922	SM 5310C	808698		
60410032018	MW-112-090722	SM 5310C	808698		
60410032019	MW-113-090922	SM 5310C	808698		
60410032020	LEC-CMA-DUP01-090622	SM 5310C	808698		
60410032021	LEC-CMA-DUP02-090722	SM 5310C	808698		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2022

WO#: 60410032



60410032

Client Name: Evergy KS Central

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

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No wa/12

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T299 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.4/2.4/1.9 Corr. Factor 0.0 Corrected 1.4/2.4/1.9/2.0 Date and initials of person examining contents:

Temperature should be above freezing to 6°C 2.0/3.1/3.3/2.1

3.1/3.3/2.1

pv 9/12/22

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: <u>55192</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:
 Company: **EVERGY KANSAS CENTRAL, INC.**
 Address: **Lawrence Energy Center (LEC)**
818 Kansas Ave, Topeka, KS 66612
 Email To: **melissa.michels@evergy.com**
 Phone: **785-575-8113** Fax:
 Requested Due Date/TAT:

Section B

Required Project Information:
 Report To: **Melissa Michels, Samantha Kaney, Danielle Ober**
 Copy To: **Jared Morrison, Jake Humphrey, Laura Hines**
 Purchase Order No.:
 Project Name: **LEC Perimeter Ash Pond Wells CCR**
 Project Number:

Section C

Invoice Information:
 Attention: **Accounts Payable**
 Company Name: **EVERGY KANSAS CENTRAL, INC**
 Address: **SAME AS A**
 Pace Quote Reference:
 Pace Project Manager: **Alice Spiller 913-563-1403**
 Pace Profile #: **9655.1 9655.8**

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
Site Location
STATE: KS

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)			
		MATRIX	CODE	COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	TOC	Sulfide	Alkalinity, Bicarbonate (Ca)	Alkalinity, Carbonate (Ca)	300: Cl, F, SO ₄	2540 TDS, Hardness	4500H+ pH, Ferrous Iron	200.7 Total Metals*	200.7 Diss. Metals (FF)**	200.8 Total Metals***	6010 Total Metals****		DOC (FF)		
		DRINKING WATER	DW	DATE	TIME	DATE	TIME											Y	N	N	N	N	N	N	N	N	Y	N	N		Y		
1	MW-A-090722	WT	G	-	-	09/07/22	15:45	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	MW-B-090722	WT	G	-	-	09/07/22	17:20	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	MW-C-090622	WT	G	-	-	09/06/22	17:15	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	MW-D-090722	WT	G	-	-	09/07/22	12:30	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	MW-G-090722	WT	G	-	-	09/07/22	15:10	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	MW-M-090622	WT	G	-	-	09/06/22	17:10	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	MW-N-090622	WT	G	-	-	09/06/22	12:30	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8	MW-O-090722	WT	G	-	-	09/07/22	13:15	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9	MW-P-090622	WT	G	-	-	09/06/22	15:10	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10	MW-101-090622	WT	G	-	-	09/06/22	14:25	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11																	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
12	MW-103-090622	WT	G	-	-	09/06/22	13:25	-	9	4	2	2	1				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

60410032
Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
200.7 Total Metals*: Ba, B, Ca, Fe, Mg, Mn, K, Na, Pb	Jason R. Franks	9/10/22	8:00	<i>Jason R. Franks</i>	9/10/22	0800	1.4
200.7 Dissolved Metals**: Fe, As, Mo, Mn (5 metals, FIELD FILTERED)							2.4/1.9
200.8 Total Metals***: As, Co, Mo (3 metals)							2.0/2.1
6010 Total Metals****: Li (1 metal)							3.3/2.4

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Correct (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Jason R. Franks					
SIGNATURE of SAMPLER: <i>Jason R. Franks</i>	DATE Signed (MM/DD/YY): 9/10/22				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Page 116 of 120

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Client: Energy KS Central

Profile # 9655-8

Site: _____

Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1													2						1		3			1			1			
2													↓						↓		↓			↓			↓			
3													↓						↓		↓			↓			↓			
4													↓						↓		↓			↓			↓			
5													↓						↓		↓			↓			↓			
6													↓						↓		↓			↓			↓			
7													↓						↓		↓			↓			↓			
8													↓						↓		↓			↓			↓			
9													↓						↓		↓			↓			↓			
10													↓						↓		↓			↓			↓			
11													↓						↓		↓			↓			↓			
12													↓						↓		↓			↓			↓			

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number: 60410032

2/2

Client: Evergy Ks Central

Profile # 9655-8

Site: _____

Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1													2						1		3		1	1						
2													↓						↓		↓		↓	↓			↓			
3													↓						↓		↓		↓	↓			↓			
4													↓						↓		↓		↓	↓			↓			
5													↓						↓		↓		↓	↓			↓			
6													↓						↓		↓		↓	↓			↓			
7													↓						↓		↓		↓	↓			↓			
8													↓						↓		↓		↓	↓			↓			
9													↓						↓		↓		↓	↓			↓			
10													↓						↓		↓		↓	↓			↓			
11													↓						↓		↓		↓	↓			↓			
12													↓						↓		↓		↓	↓			↓			

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number: 60410032

September 26, 2022

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

RE: Project: LEC INACTIVE ASH PONDS ADD.
Pace Project No.: 60410033

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60410033001	MW-37-090722	Water	09/07/22 09:20	09/09/22 17:00
60410033002	MW-38-090722	Water	09/07/22 14:45	09/09/22 17:00
60410033003	MW-39-090722	Water	09/07/22 15:25	09/09/22 17:00
60410033004	MW-40-090722	Water	09/07/22 10:20	09/09/22 17:00
60410033005	MW-K-090722	Water	09/07/22 13:20	09/09/22 17:00
60410033006	MW-L-090722	Water	09/07/22 10:55	09/09/22 17:00
60410033007	DUP-AP-090722	Water	09/07/22 13:25	09/09/22 17:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410033001	MW-37-090722	EPA 200.7	MRV	6	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410033002	MW-38-090722	EPA 200.7	MRV	6	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410033003	MW-39-090722	EPA 200.7	MRV	6	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410033004	MW-40-090722	EPA 200.7	MRV	6	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60410033005	MW-K-090722	EPA 200.7	MRV	6	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410033006	MW-L-090722	EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	MRV	6	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	JGP	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		60410033007	DUP-AP-090722	SM 5310C	BLA
SM 5310C	BLA			1	PASI-K
EPA 200.7	MRV			6	PASI-K
EPA 200.7	MRV			2	PASI-K
EPA 6010	MRV			1	PASI-K
EPA 200.8	JGP			2	PASI-K
SM 2320B	ET			2	PASI-K
SM 3500-Fe B#4	BLA			1	PASI-K
SM 4500-S-2 D	BLA			1	PASI-K
SM 5310C	BLA			1	PASI-K
SM 5310C	BLA	1	PASI-K		

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 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: 807692

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410087001,60410087002

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

- MS (Lab ID: 3213099)
 - Iron
 - Magnesium
 - Manganese
 - Potassium
 - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: EPA 200.7

Description: 200.7 Metals, Dissolved (LF)

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: EPA 6010

Description: 6010 MET ICP, Dissolved (LF)

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: EPA 200.8

Description: 200.8 ICPMS, Dissolved (LF)

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 samples were analyzed for SM 2320B 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 samples were analyzed for SM 3500-Fe B#4 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.

- DUP-AP-090722 (Lab ID: 60410033007)
- MW-37-090722 (Lab ID: 60410033001)
- MW-38-090722 (Lab ID: 60410033002)
- MW-39-090722 (Lab ID: 60410033003)
- MW-40-090722 (Lab ID: 60410033004)
- MW-K-090722 (Lab ID: 60410033005)
- MW-L-090722 (Lab ID: 60410033006)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 samples were analyzed for SM 4500-S-2 D 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: 807727

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410033001

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

- MS (Lab ID: 3213166)
 - Sulfide, Total
- MSD (Lab ID: 3213167)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Method: SM 5310C

Description: 5310C Diss. Organic Carbon LF

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

7 samples were analyzed for SM 5310C 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: 808697

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410033001

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

- MS (Lab ID: 3216651)
- Dissolved Organic Carbon

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: MW-37-090722	Lab ID: 60410033001	Collected: 09/07/22 09:20	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	3.5	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:43	7439-89-6	
Magnesium, Total Recoverable	20.4	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:43	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	09/14/22 15:20	09/19/22 14:43	7439-96-5	
Potassium, Total Recoverable	8.5	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:43	7440-09-7	
Sodium, Total Recoverable	73.6	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:43	7440-23-5	
Total Hardness by 2340B, Total Recoverable	629	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:43		
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:25	7439-89-6	
Manganese, Dissolved	1.3	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:25	7439-96-5	
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	21.6	ug/L	10.0	1	09/14/22 14:15	09/19/22 13:54	7439-93-2	
200.8 ICPMS, Dissolved (LF)								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0019	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:25	7440-38-2	
Molybdenum, Dissolved	0.089	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:25	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	441	mg/L	20.0	1		09/16/22 15:40		L2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/16/22 15:40		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:21	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:00	18496-25-8	M1
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.7	mg/L	1.0	1		09/21/22 15:46	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.8	mg/L	1.0	1		09/21/22 16:04		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: MW-38-090722	Lab ID: 60410033002	Collected: 09/07/22 14:45	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	3.3	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:45	7439-89-6	
Magnesium, Total Recoverable	62.7	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:45	7439-95-4	
Manganese, Total Recoverable	0.44	mg/L	0.0050	1	09/14/22 15:20	09/19/22 14:45	7439-96-5	
Potassium, Total Recoverable	22.8	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:45	7440-09-7	
Sodium, Total Recoverable	154	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:45	7440-23-5	
Total Hardness by 2340B, Total Recoverable	710	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:45		
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.20	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:31	7439-89-6	
Manganese, Dissolved	0.42	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:31	7439-96-5	
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	55.5	ug/L	10.0	1	09/14/22 14:15	09/19/22 14:06	7439-93-2	
200.8 ICPMS, Dissolved (LF)								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.014	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:08	7440-38-2	
Molybdenum, Dissolved	0.070	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:08	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	385	mg/L	20.0	1		09/16/22 15:46		L2
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/16/22 15:46		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:25	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:01	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.5	mg/L	1.0	1		09/21/22 16:01	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.1	mg/L	1.0	1		09/21/22 16:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: MW-39-090722	Lab ID: 60410033003	Collected: 09/07/22 15:25	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Total Recoverable	0.69	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:47	7439-89-6	
Magnesium, Total Recoverable	47.6	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:47	7439-95-4	
Manganese, Total Recoverable	2.9	mg/L	0.0050	1	09/14/22 15:20	09/19/22 14:47	7439-96-5	
Potassium, Total Recoverable	25.9	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:47	7440-09-7	
Sodium, Total Recoverable	337	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:47	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1540	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:47		
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Dissolved	0.11	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:33	7439-89-6	
Manganese, Dissolved	2.8	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:33	7439-96-5	
6010 MET ICP, Dissolved (LF)		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Dissolved	39.3	ug/L	10.0	1	09/14/22 14:15	09/19/22 14:08	7439-93-2	
200.8 ICPMS, Dissolved (LF)		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Dissolved	0.0055	mg/L	0.0020	2	09/16/22 14:25	09/22/22 22:29	7440-38-2	
Molybdenum, Dissolved	0.24	mg/L	0.0020	2	09/16/22 14:25	09/22/22 22:29	7439-98-7	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City						
Alkalinity,Bicarbonate (CaCO3)	168	mg/L	20.0	1		09/16/22 15:53		L2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/16/22 15:53		
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:37	15438-31-0	H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:01	18496-25-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	1.3	mg/L	1.0	1		09/21/22 16:15	7440-44-0	
5310C Diss. Organic Carbon LF		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.6	mg/L	1.0	1		09/21/22 16:51		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: MW-40-090722	Lab ID: 60410033004	Collected: 09/07/22 10:20	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	6.3	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:55	7439-89-6	
Magnesium, Total Recoverable	39.8	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:55	7439-95-4	
Manganese, Total Recoverable	2.6	mg/L	0.0050	1	09/14/22 15:20	09/19/22 14:55	7439-96-5	
Potassium, Total Recoverable	23.4	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:55	7440-09-7	
Sodium, Total Recoverable	237	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:55	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1240	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:55		
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:41	7439-89-6	
Manganese, Dissolved	2.6	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:41	7439-96-5	
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	44.8	ug/L	10.0	1	09/14/22 14:15	09/19/22 14:10	7439-93-2	
200.8 ICPMS, Dissolved (LF)								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0033	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:42	7440-38-2	
Molybdenum, Dissolved	0.069	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:42	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	195	mg/L	20.0	1		09/16/22 15:58		L2
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/16/22 15:58		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:22	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:01	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.3	mg/L	1.0	1		09/21/22 16:30	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.6	mg/L	1.0	1		09/21/22 17:22		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: MW-K-090722	Lab ID: 60410033005	Collected: 09/07/22 13:20	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	6.6	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:59	7439-89-6	
Magnesium, Total Recoverable	66.7	mg/L	0.050	1	09/14/22 15:20	09/19/22 14:59	7439-95-4	
Manganese, Total Recoverable	1.1	mg/L	0.0050	1	09/14/22 15:20	09/19/22 14:59	7439-96-5	
Potassium, Total Recoverable	30.8	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:59	7440-09-7	
Sodium, Total Recoverable	128	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:59	7440-23-5	
Total Hardness by 2340B, Total Recoverable	791	mg/L	0.50	1	09/14/22 15:20	09/19/22 14:59		
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:43	7439-89-6	
Manganese, Dissolved	1.0	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:43	7439-96-5	
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	51.1	ug/L	10.0	1	09/14/22 14:15	09/19/22 14:12	7439-93-2	
200.8 ICPMS, Dissolved (LF)								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.031	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:50	7440-38-2	
Molybdenum, Dissolved	0.035	mg/L	0.0010	1	09/16/22 14:25	09/22/22 22:50	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	374	mg/L	20.0	1		09/16/22 16:04		L2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/16/22 16:04		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:23	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:02	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.4	mg/L	1.0	1		09/22/22 13:19	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.3	mg/L	1.0	1		09/21/22 17:38		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: MW-L-090722	Lab ID: 60410033006	Collected: 09/07/22 10:55	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	10.7	mg/L	0.050	1	09/14/22 15:20	09/19/22 15:01	7439-89-6	
Magnesium, Total Recoverable	165	mg/L	0.050	1	09/14/22 15:20	09/19/22 15:01	7439-95-4	
Manganese, Total Recoverable	5.1	mg/L	0.0050	1	09/14/22 15:20	09/19/22 15:01	7439-96-5	
Potassium, Total Recoverable	30.4	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:01	7440-09-7	
Sodium, Total Recoverable	464	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:01	7440-23-5	
Total Hardness by 2340B, Total Recoverable	2000	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:01		
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:45	7439-89-6	
Manganese, Dissolved	4.7	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:45	7439-96-5	
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	93.1	ug/L	10.0	1	09/14/22 14:15	09/19/22 14:14	7439-93-2	
200.8 ICPMS, Dissolved (LF)								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0028	mg/L	0.0020	2	09/16/22 14:25	09/22/22 22:59	7440-38-2	
Molybdenum, Dissolved	0.045	mg/L	0.0020	2	09/16/22 14:25	09/22/22 22:59	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	231	mg/L	20.0	1		09/16/22 16:11		L2
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		09/16/22 16:11		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	0.21	mg/L	0.20	1		09/23/22 13:22	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:02	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.8	mg/L	1.0	1		09/22/22 13:47	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.7	mg/L	1.0	1		09/21/22 17:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Sample: DUP-AP-090722	Lab ID: 60410033007	Collected: 09/07/22 13:25	Received: 09/09/22 17:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	4.5	mg/L	0.050	1	09/14/22 15:20	09/19/22 15:03	7439-89-6	
Magnesium, Total Recoverable	65.4	mg/L	0.050	1	09/14/22 15:20	09/19/22 15:03	7439-95-4	
Manganese, Total Recoverable	1.1	mg/L	0.0050	1	09/14/22 15:20	09/19/22 15:03	7439-96-5	
Potassium, Total Recoverable	30.4	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:03	7440-09-7	
Sodium, Total Recoverable	122	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:03	7440-23-5	
Total Hardness by 2340B, Total Recoverable	771	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:03		
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	09/14/22 14:15	09/19/22 13:47	7439-89-6	
Manganese, Dissolved	1.0	mg/L	0.0050	1	09/14/22 14:15	09/19/22 13:47	7439-96-5	
6010 MET ICP, Dissolved (LF)								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	51.0	ug/L	10.0	1	09/14/22 14:15	09/19/22 14:16	7439-93-2	
200.8 ICPMS, Dissolved (LF)								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.044	mg/L	0.0010	1	09/16/22 14:25	09/22/22 23:07	7440-38-2	
Molybdenum, Dissolved	0.035	mg/L	0.0010	1	09/16/22 14:25	09/22/22 23:07	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	371	mg/L	20.0	1		09/16/22 16:28		L2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/16/22 16:28		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:24	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:02	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.5	mg/L	1.0	1		09/22/22 14:02	7440-44-0	
5310C Diss. Organic Carbon LF								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.2	mg/L	1.0	1		09/22/22 13:26		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.
Pace Project No.: 60410033

QC Batch: 807692 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3213095 Matrix: Water
Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	09/19/22 14:20	
Iron	mg/L	<0.050	0.050	09/19/22 14:20	
Magnesium	mg/L	<0.050	0.050	09/19/22 14:20	
Manganese	mg/L	<0.0050	0.0050	09/19/22 14:20	
Potassium	mg/L	<0.50	0.50	09/19/22 14:20	
Sodium	mg/L	<0.50	0.50	09/19/22 14:20	

LABORATORY CONTROL SAMPLE: 3213096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	62.7	95	85-115	
Iron	mg/L	10	10.4	104	85-115	
Magnesium	mg/L	10	9.2	92	85-115	
Manganese	mg/L	1	1.1	107	85-115	
Potassium	mg/L	10	10.1	101	85-115	
Sodium	mg/L	10	9.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213097 3213098

Parameter	Units	60410087001		60410087002		3213097		3213098		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Hardness, Total(SM 2340B)	mg/L	697000 ug/L	66.2	66.2	66.2	66.2	757	763	763	91	100	70-130	1	20
Iron	mg/L	<50.0 ug/L	10	10	10	10	10.2	10.2	10.2	101	102	70-130	1	20
Magnesium	mg/L	50300 ug/L	10	10	10	10	59.8	60.4	60.4	95	100	70-130	1	20
Manganese	mg/L	115 ug/L	1	1	1	1	1.2	1.2	1.2	106	105	70-130	0	20
Potassium	mg/L	1650 ug/L	10	10	10	10	12.2	12.1	12.1	105	105	70-130	0	20
Sodium	mg/L	77100 ug/L	10	10	10	10	85.2	85.3	85.3	81	82	70-130	0	20

MATRIX SPIKE SAMPLE: 3213099

Parameter	Units	60410087002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	743000 ug/L	66.2	1330	884	70-130	
Iron	mg/L	1310 ug/L	10	16.6	153	70-130 M1	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

MATRIX SPIKE SAMPLE:		3213099					
Parameter	Units	60410087002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Magnesium	mg/L	43900 ug/L	10	50.3	64	70-130	M1
Manganese	mg/L	152 ug/L	1	3.7	351	70-130	M1
Potassium	mg/L	2570 ug/L	10	34.6	320	70-130	M1
Sodium	mg/L	106000 ug/L	10	254	1480	70-130	M1

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch:	807668	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3212991 Matrix: Water
Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	09/19/22 13:23	
Manganese, Dissolved	mg/L	<0.0050	0.0050	09/19/22 13:23	

LABORATORY CONTROL SAMPLE: 3212992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	9.8	98	85-115	
Manganese, Dissolved	mg/L	1	1.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212993 3212994

Parameter	Units	60410033001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	mg/L	<0.050	10	10	10.1	10.7	101	107	70-130	6	20	
Manganese, Dissolved	mg/L	1.3	1	1	2.3	2.3	101	101	70-130	0	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch: 808132

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET Dissolved

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3214744

Matrix: Water

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	09/22/22 22:02	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	09/22/22 22:02	

LABORATORY CONTROL SAMPLE: 3214745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.040	100	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.042	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3214746 3214747

Parameter	Units	60410033002		3214747		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	mg/L	0.014	0.04	0.04	0.053	98	104	70-130	4	20	
Molybdenum, Dissolved	mg/L	0.070	0.04	0.04	0.11	112	108	70-130	1	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch:	807669	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3212996 Matrix: Water
Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	ug/L	<10.0	10.0	09/19/22 13:52	

LABORATORY CONTROL SAMPLE: 3212997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	ug/L	1000	967	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3212998 3212999

Parameter	Units	3212998		3212999		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410033001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium, Dissolved	ug/L	21.6	1000	1000	1070	1060	105	104	75-125	1	20

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch:	808053	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3214504 Matrix: Water

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/16/22 15:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/16/22 15:18	

SAMPLE DUPLICATE: 3214506

Parameter	Units	60409417001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	330	330	0	10	H1
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	H1

SAMPLE DUPLICATE: 3214507

Parameter	Units	60410246001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	123	125	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch: 808989 Analysis Method: SM 3500-Fe B#4
 QC Batch Method: SM 3500-Fe B#4 Analysis Description: Iron, Ferrous
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60410033001, 60410033002, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3217946 Matrix: Water
 Associated Lab Samples: 60410033001, 60410033002, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/22 13:15	H6

LABORATORY CONTROL SAMPLE: 3217947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3217948

Parameter	Units	60410032015 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch: 809175	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033003

METHOD BLANK: 3218645 Matrix: Water

Associated Lab Samples: 60410033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/22 13:35	H6

LABORATORY CONTROL SAMPLE: 3218646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3218647

Parameter	Units	60410643002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch:	807727	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

METHOD BLANK: 3213164 Matrix: Water

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	09/14/22 15:59	

LABORATORY CONTROL SAMPLE: 3213165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213166 3213167

Parameter	Units	60410033001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.35	0.35	66	66	75-125	0	20	M1

SAMPLE DUPLICATE: 3213168

Parameter	Units	60410033002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch:	808479	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004

METHOD BLANK: 3215941 Matrix: Water
Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	09/21/22 09:32	

LABORATORY CONTROL SAMPLE: 3215942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE SAMPLE: 3215943

Parameter	Units	60409900002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	25	33.1	113	80-120	

SAMPLE DUPLICATE: 3215944

Parameter	Units	60409900002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	ND	<5.0		25	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch: 808995

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory:

Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033005, 60410033006, 60410033007

METHOD BLANK: 3217971

Matrix: Water

Associated Lab Samples: 60410033005, 60410033006, 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	09/22/22 12:35	

LABORATORY CONTROL SAMPLE: 3217972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	109	80-120	

MATRIX SPIKE SAMPLE: 3217973

Parameter	Units	60410033005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.4	5	7.1	93	80-120	

SAMPLE DUPLICATE: 3217974

Parameter	Units	60410033007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	1	25	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch:	808697	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006

METHOD BLANK: 3216649 Matrix: Water
Associated Lab Samples: 60410033001, 60410033002, 60410033003, 60410033004, 60410033005, 60410033006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/21/22 15:34	

LABORATORY CONTROL SAMPLE: 3216650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	102	80-120	

MATRIX SPIKE SAMPLE: 3216651

Parameter	Units	60410033001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.8	5	10.1	125	80-120	M1

SAMPLE DUPLICATE: 3216652

Parameter	Units	60410033003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.6	2.6	0	25	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

QC Batch: 808999	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410033007

METHOD BLANK: 3217986 Matrix: Water

Associated Lab Samples: 60410033007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/22/22 12:39	

LABORATORY CONTROL SAMPLE: 3217987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	101	80-120	

MATRIX SPIKE SAMPLE: 3217988

Parameter	Units	60410033007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	3.2	5	8.0	96	80-120	

SAMPLE DUPLICATE: 3217989

Parameter	Units	60410032002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	2.9	2.9	0	25	

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QUALIFIERS

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

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

H1 Analysis conducted outside the EPA method holding time.

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

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410033001	MW-37-090722	EPA 200.7	807692	EPA 200.7	807723
60410033002	MW-38-090722	EPA 200.7	807692	EPA 200.7	807723
60410033003	MW-39-090722	EPA 200.7	807692	EPA 200.7	807723
60410033004	MW-40-090722	EPA 200.7	807692	EPA 200.7	807723
60410033005	MW-K-090722	EPA 200.7	807692	EPA 200.7	807723
60410033006	MW-L-090722	EPA 200.7	807692	EPA 200.7	807723
60410033007	DUP-AP-090722	EPA 200.7	807692	EPA 200.7	807723
60410033001	MW-37-090722	EPA 200.7	807668	EPA 200.7	807713
60410033002	MW-38-090722	EPA 200.7	807668	EPA 200.7	807713
60410033003	MW-39-090722	EPA 200.7	807668	EPA 200.7	807713
60410033004	MW-40-090722	EPA 200.7	807668	EPA 200.7	807713
60410033005	MW-K-090722	EPA 200.7	807668	EPA 200.7	807713
60410033006	MW-L-090722	EPA 200.7	807668	EPA 200.7	807713
60410033007	DUP-AP-090722	EPA 200.7	807668	EPA 200.7	807713
60410033001	MW-37-090722	EPA 3010	807669	EPA 6010	807714
60410033002	MW-38-090722	EPA 3010	807669	EPA 6010	807714
60410033003	MW-39-090722	EPA 3010	807669	EPA 6010	807714
60410033004	MW-40-090722	EPA 3010	807669	EPA 6010	807714
60410033005	MW-K-090722	EPA 3010	807669	EPA 6010	807714
60410033006	MW-L-090722	EPA 3010	807669	EPA 6010	807714
60410033007	DUP-AP-090722	EPA 3010	807669	EPA 6010	807714
60410033001	MW-37-090722	EPA 200.8	808132	EPA 200.8	808148
60410033002	MW-38-090722	EPA 200.8	808132	EPA 200.8	808148
60410033003	MW-39-090722	EPA 200.8	808132	EPA 200.8	808148
60410033004	MW-40-090722	EPA 200.8	808132	EPA 200.8	808148
60410033005	MW-K-090722	EPA 200.8	808132	EPA 200.8	808148
60410033006	MW-L-090722	EPA 200.8	808132	EPA 200.8	808148
60410033007	DUP-AP-090722	EPA 200.8	808132	EPA 200.8	808148
60410033001	MW-37-090722	SM 2320B	808053		
60410033002	MW-38-090722	SM 2320B	808053		
60410033003	MW-39-090722	SM 2320B	808053		
60410033004	MW-40-090722	SM 2320B	808053		
60410033005	MW-K-090722	SM 2320B	808053		
60410033006	MW-L-090722	SM 2320B	808053		
60410033007	DUP-AP-090722	SM 2320B	808053		
60410033001	MW-37-090722	SM 3500-Fe B#4	808989		
60410033002	MW-38-090722	SM 3500-Fe B#4	808989		
60410033003	MW-39-090722	SM 3500-Fe B#4	809175		
60410033004	MW-40-090722	SM 3500-Fe B#4	808989		
60410033005	MW-K-090722	SM 3500-Fe B#4	808989		
60410033006	MW-L-090722	SM 3500-Fe B#4	808989		
60410033007	DUP-AP-090722	SM 3500-Fe B#4	808989		
60410033001	MW-37-090722	SM 4500-S-2 D	807727		
60410033002	MW-38-090722	SM 4500-S-2 D	807727		
60410033003	MW-39-090722	SM 4500-S-2 D	807727		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS ADD.

Pace Project No.: 60410033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410033004	MW-40-090722	SM 4500-S-2 D	807727		
60410033005	MW-K-090722	SM 4500-S-2 D	807727		
60410033006	MW-L-090722	SM 4500-S-2 D	807727		
60410033007	DUP-AP-090722	SM 4500-S-2 D	807727		
60410033001	MW-37-090722	SM 5310C	808479		
60410033002	MW-38-090722	SM 5310C	808479		
60410033003	MW-39-090722	SM 5310C	808479		
60410033004	MW-40-090722	SM 5310C	808479		
60410033005	MW-K-090722	SM 5310C	808995		
60410033006	MW-L-090722	SM 5310C	808995		
60410033007	DUP-AP-090722	SM 5310C	808995		
60410033001	MW-37-090722	SM 5310C	808697		
60410033002	MW-38-090722	SM 5310C	808697		
60410033003	MW-39-090722	SM 5310C	808697		
60410033004	MW-40-090722	SM 5310C	808697		
60410033005	MW-K-090722	SM 5310C	808697		
60410033006	MW-L-090722	SM 5310C	808697		
60410033007	DUP-AP-090722	SM 5310C	808999		

REPORT OF LABORATORY ANALYSIS

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WO#: 60410033



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

Revision: 2

Effective Date: 01/12/2022

Issued By: Lenexa

Client Name: Energy Ks Central

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T 299 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2.2/2.7 Corr. Factor 0.0 Corrected 2.2/2.7

Date and initials of person examining contents:
PN 9/12/22

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Did not receive diss</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>metals for all samples. PN 9/12/22</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

LOT#: 53192

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Client: EVERY KS central

Profile # 9655-4

Site: _____

Notes one BP3U = MET Filt / BP3F = 6010WF 2007WF

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	BP3C	BP3Z	WPDU	ZPLC	Other
1													2								3		-	-			-			
2													↓								↓		↓	↓			↓			
3													↓								↓		↓	↓			↓			
4													↓								↓		↓	↓			↓			
5													↓								↓		↓	↓			↓			
6													↓								↓		↓	↓			↓			
7													↓								↓		↓	↓			↓			
8													↓								↓		↓	↓			↓			
9													↓								↓		↓	↓			↓			
10													↓								↓		↓	↓			↓			
11													↓								↓		↓	↓			↓			
12													↓								↓		↓	↓			↓			

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number:

60410033

September 26, 2022

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

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410097

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,



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

Enclosures

cc: Laura Hines, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Melissa Michels, Evergy, Inc.
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Arkansas Drinking Water

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212020-2

Oklahoma Certification #: 9205/9935

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212019-9

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60410097001	MW 102	Water	09/12/22 11:20	09/12/22 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60410097001	MW 102	EPA 200.7	MRV	10	PASI-K
		EPA 200.7	MRV	2	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 6010	MRV	1	PASI-K
		EPA 200.8	MRV	3	PASI-K
		EPA 200.8	MRV	2	PASI-K
		SM 2320B	ET	2	PASI-K
		SM 2540C	TML	1	PASI-K
		SM 3500-Fe B#4	BLA	1	PASI-K
		SM 4500-H+B	ET	1	PASI-K
		SM 4500-S-2 D	BLA	1	PASI-K
		EPA 300.0	CRN2, RKA	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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: 807692

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410087001,60410087002

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

- MS (Lab ID: 3213099)
 - Boron
 - Calcium
 - Iron
 - Magnesium
 - Manganese
 - Potassium
 - Sodium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 200.8

Description: 200.8 MET ICPMS, Dissolved

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

1 sample was analyzed for SM 2320B 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

1 sample was analyzed for SM 3500-Fe B#4 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.

- MW 102 (Lab ID: 60410097001)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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.

- MW 102 (Lab ID: 60410097001)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

1 sample was analyzed for SM 4500-S-2 D 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: 807727

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60410033001

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

- MS (Lab ID: 3213166)
 - Sulfide, Total
- MSD (Lab ID: 3213167)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

1 sample was analyzed for SM 5310C 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: September 26, 2022

General Information:

1 sample was analyzed for SM 5310C 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:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Sample: MW 102	Lab ID: 60410097001	Collected: 09/12/22 11:20	Received: 09/12/22 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.13	mg/L	0.0050	1	09/14/22 15:20	09/19/22 15:24	7440-39-3	
Boron, Total Recoverable	0.45	mg/L	0.10	1	09/14/22 15:20	09/19/22 15:24	7440-42-8	
Calcium, Total Recoverable	119	mg/L	0.20	1	09/14/22 15:20	09/19/22 15:24	7440-70-2	
Iron, Total Recoverable	1.5	mg/L	0.050	1	09/14/22 15:20	09/19/22 15:24	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	09/14/22 15:20	09/19/22 15:24	7439-92-1	
Magnesium, Total Recoverable	31.3	mg/L	0.050	1	09/14/22 15:20	09/19/22 15:24	7439-95-4	
Manganese, Total Recoverable	0.43	mg/L	0.0050	1	09/14/22 15:20	09/19/22 15:24	7439-96-5	
Potassium, Total Recoverable	9.0	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:24	7440-09-7	
Sodium, Total Recoverable	11.4	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:24	7440-23-5	
Total Hardness by 2340B, Total Recoverable	427	mg/L	0.50	1	09/14/22 15:20	09/19/22 15:24		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.60	mg/L	0.050	1	09/14/22 15:15	09/20/22 14:37	7439-89-6	
Manganese, Dissolved	0.42	mg/L	0.0050	1	09/14/22 15:15	09/20/22 14:37	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.031	mg/L	0.010	1	09/15/22 09:53	09/16/22 08:23	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.029	mg/L	0.010	1	09/14/22 15:15	09/20/22 14:54	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.014	mg/L	0.0010	1	09/14/22 15:20	09/15/22 14:06	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	09/14/22 15:20	09/15/22 14:06	7440-48-4	
Molybdenum, Total Recoverable	0.040	mg/L	0.0010	1	09/14/22 15:20	09/15/22 14:06	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0082	mg/L	0.0010	1	09/14/22 15:15	09/23/22 17:23	7440-38-2	
Molybdenum, Dissolved	0.042	mg/L	0.0010	1	09/14/22 15:15	09/23/22 17:23	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	377	mg/L	20.0	1		09/16/22 16:35		L2
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		09/16/22 16:35		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	552	mg/L	10.0	1		09/19/22 15:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Sample: MW 102		Lab ID: 60410097001		Collected: 09/12/22 11:20	Received: 09/12/22 14:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		09/23/22 13:39	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.8	Std. Units	0.10	1		09/14/22 11:20		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		09/14/22 16:03	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	14.8	mg/L	1.0	1		09/22/22 20:36	16887-00-6	
Fluoride	1.5	mg/L	0.20	1		09/22/22 20:36	16984-48-8	
Sulfate	69.5	mg/L	10.0	10		09/26/22 12:28	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	1.5	mg/L	1.0	1		09/23/22 00:22	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.5	mg/L	1.0	1		09/21/22 14:01		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch:	807692	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3213095 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	09/19/22 14:20	
Boron	mg/L	<0.10	0.10	09/19/22 14:20	
Calcium	mg/L	<0.20	0.20	09/19/22 14:20	
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	09/19/22 14:20	
Iron	mg/L	<0.050	0.050	09/19/22 14:20	
Lead	mg/L	<0.010	0.010	09/19/22 14:20	
Magnesium	mg/L	<0.050	0.050	09/19/22 14:20	
Manganese	mg/L	<0.0050	0.0050	09/19/22 14:20	
Potassium	mg/L	<0.50	0.50	09/19/22 14:20	
Sodium	mg/L	<0.50	0.50	09/19/22 14:20	

LABORATORY CONTROL SAMPLE: 3213096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	104	85-115	
Boron	mg/L	1	0.98	98	85-115	
Calcium	mg/L	10	9.9	99	85-115	
Hardness, Total(SM 2340B)	mg/L	66.2	62.7	95	85-115	
Iron	mg/L	10	10.4	104	85-115	
Lead	mg/L	1	1.0	103	85-115	
Magnesium	mg/L	10	9.2	92	85-115	
Manganese	mg/L	1	1.1	107	85-115	
Potassium	mg/L	10	10.1	101	85-115	
Sodium	mg/L	10	9.8	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213097 3213098

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410087001 Result	Spike Conc.	Spike Conc.	Conc.								
Barium	mg/L	0.039	1	1	1.1	1.1	103	104	70-130	1	20		
Boron	mg/L	0.39	1	1	1.4	1.4	99	100	70-130	1	20		
Calcium	mg/L	196	10	10	204	206	85	100	70-130	1	20		
Hardness, Total(SM 2340B)	mg/L	697000	66.2	66.2	757	763	91	100	70-130	1	20		
	ug/L												
Iron	mg/L	<50.0 ug/L	10	10	10.2	10.2	101	102	70-130	1	20		
Lead	mg/L	<0.010	1	1	1.0	1.0	102	101	70-130	1	20		
Magnesium	mg/L	50300 ug/L	10	10	59.8	60.4	95	100	70-130	1	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213097 3213098													
Parameter	Units	60410087001 Result	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MSD Conc.	MS Result	MSD Result							
Manganese	mg/L	115 ug/L	1	1	1.2	1.2	106	105	70-130	0	20		
Potassium	mg/L	1650 ug/L	10	10	12.2	12.1	105	105	70-130	0	20		
Sodium	mg/L	77100 ug/L	10	10	85.2	85.3	81	82	70-130	0	20		

MATRIX SPIKE SAMPLE: 3213099							
Parameter	Units	60410087002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.059	1	1.1	102	70-130	
Boron	mg/L	0.59	1	4.8	420	70-130	M1
Calcium	mg/L	225	10	449	2240	70-130	M1
Hardness, Total(SM 2340B)	mg/L	743000 ug/L	66.2	1330	884	70-130	
Iron	mg/L	1310 ug/L	10	16.6	153	70-130	M1
Lead	mg/L	<0.010	1	1.0	101	70-130	
Magnesium	mg/L	43900 ug/L	10	50.3	64	70-130	M1
Manganese	mg/L	152 ug/L	1	3.7	351	70-130	M1
Potassium	mg/L	2570 ug/L	10	34.6	320	70-130	M1
Sodium	mg/L	106000 ug/L	10	254	1480	70-130	M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 807686	Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7	Analysis Description: 200.7 Metals, Dissolved
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3213059 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	09/20/22 14:35	
Manganese, Dissolved	mg/L	<0.0050	0.0050	09/20/22 14:35	

LABORATORY CONTROL SAMPLE: 3213060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	10.1	101	85-115	
Manganese, Dissolved	mg/L	1	1.0	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213061 3213062

Parameter	Units	60410097001		3213062		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Iron, Dissolved	mg/L	0.60	10	10	10.6	100	102	70-130	1	20	
Manganese, Dissolved	mg/L	0.42	1	1	1.4	103	104	70-130	1	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 807693

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: 60410097001

METHOD BLANK: 3213100

Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	09/15/22 11:56	
Cobalt	mg/L	<0.0010	0.0010	09/15/22 11:56	
Molybdenum	mg/L	<0.0010	0.0010	09/15/22 11:56	

LABORATORY CONTROL SAMPLE: 3213101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	98	85-115	
Cobalt	mg/L	0.04	0.040	99	85-115	
Molybdenum	mg/L	0.04	0.039	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213102 3213103

Parameter	Units	60410087002		3213102		3213103		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Arsenic	mg/L	0.0019	0.04	0.04	0.040	0.040	96	96	70-130	0	20		
Cobalt	mg/L	0.0014	0.04	0.04	0.038	0.038	92	93	70-130	1	20		
Molybdenum	mg/L	0.0019	0.04	0.04	0.041	0.042	98	99	70-130	1	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 807687

Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8

Analysis Description: 200.8 MET Dissolved

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3213063

Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	09/23/22 17:19	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	09/23/22 17:19	

LABORATORY CONTROL SAMPLE: 3213064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.041	103	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.043	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213065 3213066

Parameter	Units	60410097001		3213066		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	mg/L	0.0082	0.04	0.04	0.049	0.049	102	102	70-130	0	20
Molybdenum, Dissolved	mg/L	0.042	0.04	0.04	0.087	0.087	111	111	70-130	0	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410097

QC Batch: 807790	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3213499 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	09/16/22 07:56	

LABORATORY CONTROL SAMPLE: 3213500

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213501 3213502

Parameter	Units	3213501		3213502		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410097001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium	mg/L	0.031	1	1	1.1	1.1	104	103	75-125	1	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 807688	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET Dissolved
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3213067 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	09/20/22 15:31	

LABORATORY CONTROL SAMPLE: 3213068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213069 3213070

Parameter	Units	3213069		3213070		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410097001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium, Dissolved	mg/L	0.029	1	1	1.0	1.1	102	102	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410097

QC Batch: 808053	Analysis Method: SM 2320B
QC Batch Method: SM 2320B	Analysis Description: 2320B Alkalinity
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3214504 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	09/16/22 15:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	09/16/22 15:18	

SAMPLE DUPLICATE: 3214506

Parameter	Units	60409417001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	330	330	0	10	H1
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	H1

SAMPLE DUPLICATE: 3214507

Parameter	Units	60410246001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	123	125	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 808278	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3215354 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	09/19/22 15:09	

LABORATORY CONTROL SAMPLE: 3215355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	974	97	80-120	

SAMPLE DUPLICATE: 3215356

Parameter	Units	60410083001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	142	130	9	10	

SAMPLE DUPLICATE: 3215358

Parameter	Units	60410271001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	724	708	2	10	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 809175

Analysis Method: SM 3500-Fe B#4

QC Batch Method: SM 3500-Fe B#4

Analysis Description: Iron, Ferrous

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3218645

Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	09/23/22 13:35	H6

LABORATORY CONTROL SAMPLE: 3218646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.0	100	90-110	H6

SAMPLE DUPLICATE: 3218647

Parameter	Units	60410643002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 807539

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

SAMPLE DUPLICATE: 3212485

Parameter	Units	60410032019 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 807727

Analysis Method: SM 4500-S-2 D

QC Batch Method: SM 4500-S-2 D

Analysis Description: 4500S2D Sulfide, Total

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3213164

Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	09/14/22 15:59	

LABORATORY CONTROL SAMPLE: 3213165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3213166 3213167

Parameter	Units	60410033001		60410033002		60410033001		60410033002		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Sulfide, Total	mg/L	<0.050	0.5	<0.050	0.5	0.35	0.35	66	66	75-125	0	20	M1

SAMPLE DUPLICATE: 3213168

Parameter	Units	60410033002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 808885	Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3217436 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/22/22 19:08	
Fluoride	mg/L	<0.20	0.20	09/22/22 19:08	
Sulfate	mg/L	<1.0	1.0	09/22/22 19:08	

METHOD BLANK: 3220066 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	09/26/22 08:30	
Fluoride	mg/L	<0.20	0.20	09/26/22 08:30	
Sulfate	mg/L	<1.0	1.0	09/26/22 08:30	

LABORATORY CONTROL SAMPLE: 3217437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	95	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	5	4.6	92	90-110	

LABORATORY CONTROL SAMPLE: 3220067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.6	92	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	5	4.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217438 3217439

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60410007001 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	114	250	250	343	346	92	93	80-120	1	15
Fluoride	mg/L	ND	125	125	115	117	92	94	80-120	2	15
Sulfate	mg/L	436	250	250	678	677	97	96	80-120	0	15

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

QC Batch: 808998	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3217980 Matrix: Water

Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	09/22/22 19:33	

LABORATORY CONTROL SAMPLE: 3217981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3217983 3217984

Parameter	Units	10625053001		3217983		3217984		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Organic Carbon	mg/L	6.6	5	5	11.5	11.4	97	96	80-120	0	25

SAMPLE DUPLICATE: 3217982

Parameter	Units	10625053001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	6.6	6.5	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60410097

QC Batch: 808698	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60410097001

METHOD BLANK: 3216653 Matrix: Water
Associated Lab Samples: 60410097001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	09/21/22 09:39	

LABORATORY CONTROL SAMPLE: 3216654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.1	102	80-120	

MATRIX SPIKE SAMPLE: 3216655

Parameter	Units	10625449001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.1	5	7.3	105	80-120	

SAMPLE DUPLICATE: 3216656

Parameter	Units	60410032015 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	7.7	7.9	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

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

H1 Analysis conducted outside the EPA method holding time.

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

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60410097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60410097001	MW 102	EPA 200.7	807692	EPA 200.7	807723
60410097001	MW 102	EPA 200.7	807686	EPA 200.7	807720
60410097001	MW 102	EPA 3010	807790	EPA 6010	807889
60410097001	MW 102	EPA 3010	807688	EPA 6010	807722
60410097001	MW 102	EPA 200.8	807693	EPA 200.8	807724
60410097001	MW 102	EPA 200.8	807687	EPA 200.8	807721
60410097001	MW 102	SM 2320B	808053		
60410097001	MW 102	SM 2540C	808278		
60410097001	MW 102	SM 3500-Fe B#4	809175		
60410097001	MW 102	SM 4500-H+B	807539		
60410097001	MW 102	SM 4500-S-2 D	807727		
60410097001	MW 102	EPA 300.0	808885		
60410097001	MW 102	SM 5310C	808998		
60410097001	MW 102	SM 5310C	808698		

REPORT OF LABORATORY ANALYSIS

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WO#: 60410097



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



Revision: 2

Effective Date: 01/12/2

Client Name: Energy Kansas Central

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T299 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.0 Corr. Factor 0.0 Corrected 4.0

Date and initials of person examining contents:

AF 9/13

Temperature should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: EVERGY KANSAS CENTRAL, INC.		Report To: Jake Humphrey		Attention: Accounts Payable	
Address: 400 E Van Buren St		Copy To: Laura Hines, Samantha Kaney, Melissa Michels		Company Name: EVERGY KANSAS CENTRAL, INC.	
Suite 545 Phoenix, AZ 85004		Danielle Oberbroeckling		Address: SAME AS A	
Email To: Doberbroeckling@haleyaldrich.com		Purchase Order No.:		Pace Quote Reference:	
Phone: 507-251-2232 Fax:		Project Name: LEC Perimeter Ash Pond Wells CCR		Pace Project Manager: Alice Spiller 913-563-1403	
Requested Due Date/TAT:		Project Number:		Pace Profile #: 9655, 8	
REGULATORY AGENCY					
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____					
Site Location				STATE: KS	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Pace Project No./ Lab I.D. <i>60410007</i>															
					COMPOSITE START		COMPOSITE END/GRAB				↓ Analysis Test ↓	Sulfide	Alkalinity, Bicarbonate (Ca)	Alkalinity, Carbonate (Ca)	300: Cl, F, SO4	2540 TDS, Hardness	4500H+ pH, Ferrous Iron	200.7 Total Metals*	200.7 Diss. Metals (FF)**	200.8 Total Metals***		6010 Total Metals****	TOC, DOC, Hardness	Residual Chlorine (Y/N)												
					DATE	TIME	DATE	TIME																	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	MW 102				9/12/22	1120	-	-																												
2																																				
3																																				
4																																				
5																																				
6																																				
7																																				
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
200.7 Total Metals*: Ba, B, Ca, Fe, Mg, Mn, K, Na,Pb	Britta Coleman/SCS eng.	9/12/22	1400	UR:PM	9.22	1400	4.0	Y
200.7 Dissolved Metals**: Fe, As, Mo, Mn / 6010 Diss Li								
200.8 Total Metals***: As, Co, Mo (3 metals)								
6010 Total Metals****: Li (1 metal)								

SAMPLER NAME AND SIGNATURE		Temp.in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	Britta Coleman				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	09/12/22		

Page 39 of 41

Client: Energy Kansas Central
 Site: LEC Perimeter Ash Pond Wells CCR

Profile # 9695-8
 Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1													X						1		3		2	1			1			
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number: 60410097

Attachment 2-2
December 2022 Annual Assessment Sampling Event
Laboratory Analytical Report

February 02, 2023

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

RE: Project: LEC INACTIVE ASH POND
Pace Project No.: 60418304

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2022. 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 2/2/23 re-packaged to include radchem QC sheets. No data was changed.

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

Sincerely,



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

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Danielle Oberbroeckling, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

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

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60418304001	MW-37-121622	Water	12/16/22 13:50	12/16/22 16:00
60418304002	MW-38-121622	Water	12/16/22 14:40	12/16/22 16:00
60418304003	MW-39-121622	Water	12/16/22 13:00	12/16/22 16:00
60418304004	MW-40-121622	Water	12/16/22 12:15	12/16/22 16:00
60418304005	MW-K-121622	Water	12/16/22 10:30	12/16/22 16:00
60418304006	MW-L-121622	Water	12/16/22 11:30	12/16/22 16:00
60418304007	LEC AP-DUP-121622	Water	12/16/22 10:30	12/16/22 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60418304001	MW-37-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60418304002	MW-38-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60418304003	MW-39-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60418304004	MW-40-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60418304005	MW-K-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60418304006	MW-L-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60418304007	LEC AP-DUP-121622	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: February 02, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: February 02, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: February 02, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: MW-37-121622 **Lab ID: 60418304001** Collected: 12/16/22 13:50 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.126 ± 0.304 (0.587) C:NA T:90%	pCi/L	01/06/23 16:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.329 ± 0.329 (0.676) C:81% T:86%	pCi/L	01/05/23 15:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.455 ± 0.633 (1.26)	pCi/L	01/09/23 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: MW-38-121622 **Lab ID: 60418304002** Collected: 12/16/22 14:40 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.120 ± 0.274 (0.644) C:NA T:88%	pCi/L	01/06/23 16:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.958 ± 0.448 (0.758) C:81% T:80%	pCi/L	01/05/23 15:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.958 ± 0.722 (1.40)	pCi/L	01/09/23 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: MW-39-121622 **Lab ID: 60418304003** Collected: 12/16/22 13:00 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.232 ± 0.323 (0.818) C:NA T:88%	pCi/L	01/06/23 16:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.484 ± 0.366 (0.715) C:79% T:83%	pCi/L	01/05/23 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.484 ± 0.689 (1.53)	pCi/L	01/09/23 10:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: MW-40-121622 **Lab ID: 60418304004** Collected: 12/16/22 12:15 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.140 ± 0.336 (0.650) C:NA T:84%	pCi/L	01/06/23 17:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.644 ± 0.444 (0.851) C:73% T:78%	pCi/L	01/05/23 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.784 ± 0.780 (1.50)	pCi/L	01/09/23 10:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: MW-K-121622 **Lab ID: 60418304005** Collected: 12/16/22 10:30 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.511 ± 0.359 (0.173) C:NA T:92%	pCi/L	01/06/23 17:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.677 ± 0.431 (0.811) C:81% T:79%	pCi/L	01/05/23 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.19 ± 0.790 (0.984)	pCi/L	01/09/23 10:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: MW-L-121622 **Lab ID: 60418304006** Collected: 12/16/22 11:30 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.118 ± 0.366 (0.709) C:NA T:89%	pCi/L	01/06/23 17:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.979 ± 0.543 (1.01) C:77% T:78%	pCi/L	01/05/23 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.10 ± 0.909 (1.72)	pCi/L	01/09/23 10:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Sample: LEC AP-DUP-121622 **Lab ID: 60418304007** Collected: 12/16/22 10:30 Received: 12/16/22 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.251 ± 0.461 (0.822) C:NA T:94%	pCi/L	01/06/23 17:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.25 ± 0.554 (0.942) C:81% T:77%	pCi/L	01/05/23 15:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.50 ± 1.02 (1.76)	pCi/L	01/09/23 10:32	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

QC Batch: 556153

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60418304001, 60418304002, 60418304003, 60418304004, 60418304005, 60418304006, 60418304007

METHOD BLANK: 2702083

Matrix: Water

Associated Lab Samples: 60418304001, 60418304002, 60418304003, 60418304004, 60418304005, 60418304006, 60418304007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0608 ± 0.293 (0.672) C:81% T:81%	pCi/L	01/05/23 15:35	

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

QC Batch: 556152

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60418304001, 60418304002, 60418304003, 60418304004, 60418304005, 60418304006, 60418304007

METHOD BLANK: 2702082

Matrix: Water

Associated Lab Samples: 60418304001, 60418304002, 60418304003, 60418304004, 60418304005, 60418304006, 60418304007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.249 ± 0.294 (0.462) C:NA T:85%	pCi/L	01/06/23 16:33	

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

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QUALIFIERS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418304

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60418304001	MW-37-121622	EPA 903.1	556152		
60418304002	MW-38-121622	EPA 903.1	556152		
60418304003	MW-39-121622	EPA 903.1	556152		
60418304004	MW-40-121622	EPA 903.1	556152		
60418304005	MW-K-121622	EPA 903.1	556152		
60418304006	MW-L-121622	EPA 903.1	556152		
60418304007	LEC AP-DUP-121622	EPA 903.1	556152		
60418304001	MW-37-121622	EPA 904.0	556153		
60418304002	MW-38-121622	EPA 904.0	556153		
60418304003	MW-39-121622	EPA 904.0	556153		
60418304004	MW-40-121622	EPA 904.0	556153		
60418304005	MW-K-121622	EPA 904.0	556153		
60418304006	MW-L-121622	EPA 904.0	556153		
60418304007	LEC AP-DUP-121622	EPA 904.0	556153		
60418304001	MW-37-121622	Total Radium Calculation	558734		
60418304002	MW-38-121622	Total Radium Calculation	558734		
60418304003	MW-39-121622	Total Radium Calculation	558734		
60418304004	MW-40-121622	Total Radium Calculation	558734		
60418304005	MW-K-121622	Total Radium Calculation	558734		
60418304006	MW-L-121622	Total Radium Calculation	558734		
60418304007	LEC AP-DUP-121622	Total Radium Calculation	558734		

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WO#: 60418304



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



Revision: 2

Effective Date: 01/12/2022

Client Name: Energy Kansas Central

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 0.4 Corr. Factor -0.1 Corrected 0.3

Date and initials of person examining contents:

AF 12/19

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Cooler 2-0.7°</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Client: Energy Kansas Central

Profile # 1657-2

Site: LEL Inactive Ash Pond

Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1	WT																													
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass			Plastic			Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NAOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NAOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate		
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpreserved plstic		

Work Order Number:

60418304

Internal Transfer Chain of Custody



Samples Pre-Logged into eCOC.

State Of Origin: KS

Cert. Needed: Yes No

Owner Received Date: 12/16/2022 Results Requested By: 12/28/2022

Workorder: 60418304

Workorder Name: LEC INACTIVE ASH POND

Report To: Alice Spiller
Subcontract To: Pace Analytical Pittsburgh
Requested Analysis: W0#: 30548926

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

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

W0#: 30548926



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers								Radium 226	Radium 228 + combined	LAB USE ONLY
						HNO3										
1	MW-37-121622	PS	12/16/2022 13:50	60418304001	Water	2								X	X	001
2	MW-38-121622	PS	12/16/2022 14:40	60418304002	Water	2								X	X	002
3	MW-39-121622	PS	12/16/2022 13:00	60418304003	Water	2								X	X	003
4	MW-40-121622	PS	12/16/2022 12:15	60418304004	Water	2								X	X	004
5	MW-K-121622	PS	12/16/2022 10:30	60418304005	Water	2								X	X	005
6	MW-L-121622	PS	12/16/2022 11:30	60418304006	Water	2								X	X	006
7	LEC AP-DUP-121622	PS	12/16/2022 10:30	60418304007	Water	2								X	X	007

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	12/20/22 1700	<i>[Signature]</i>	12/20/22 1015	
2					
3					

Cooler Temperature on Receipt °C Custody Seal (Y) or N Received on Ice Y or (N) Samples Intact (Y) or N

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



Client Name: Pace Kansas

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 6091 0794 0319

Examined By JA
 Labeled By JA
 Temped By n/a

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

Thermometer Used: Type of Ice: Wet Blue None

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

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	<u>10D4611</u>	
Chain of Custody Present	<input checked="" type="checkbox"/>				
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Chain of Custody Relinquished	<input checked="" type="checkbox"/>				
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Sample Labels match COC: -Includes date/time/ID Matrix:	<input checked="" type="checkbox"/>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>				
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>			
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>			
Sufficient Volume:	<input checked="" type="checkbox"/>				
Correct Containers Used: -Pace Containers Used	<input checked="" type="checkbox"/>				
Containers Intact:	<input checked="" type="checkbox"/>				
Orthophosphate field filtered:			<input checked="" type="checkbox"/>		
Hex Cr Aqueous samples field filtered:			<input checked="" type="checkbox"/>		
Organic Samples checked for dechlorination			<input checked="" type="checkbox"/>		
Filtered volume received for dissolved tests:			<input checked="" type="checkbox"/>		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>				
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>			Initial when completed <u>JA</u>	Date/Time of Preservation
				Lot# of added Preservative	
Headspace in VOA Vials (>6mm):			<input checked="" type="checkbox"/>		
Trip Blank Present:			<input checked="" type="checkbox"/>		
Trip Blank Custody Seals Present			<input checked="" type="checkbox"/>		
Rad Samples Screened <0.5 mrem/hr.	<input checked="" type="checkbox"/>			Initial when completed <u>JA</u>	Date: <u>12-23-22</u> Survey Meter SN: <u>1503</u>
Comments:					

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



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: GDH
Date: 12/28/2022
Batch ID: 70732
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2702082
MB concentration:	0.249
M/B Counting Uncertainty:	0.293
MB MDC:	0.462
MB Numerical Performance Indicator:	1.67
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCSD70732	LCSD70732
Count Date:	1/6/2023	
Spike I.D.:	21-040	
Spike Concentration (pCi/mL):	32.422	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.659	
Target Conc. (pCi/L, g, F):	4.918	
Uncertainty (Calculated):	0.231	
Result (pCi/L, g, F):	5.043	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.960	
Numerical Performance Indicator:	0.25	
Percent Recovery:	102.54%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	73%	

Sample Matrix Spike Control Assessment	MS/MSD 1 12/16/2022	MS/MSD 2 12/16/2022
Sample Collection Date:	12/16/2022	12/16/2022
Sample I.D.:	50333823002	50333840002
Sample MS I.D.:	50333823003	50333840003
Sample MSD I.D.:	50333823004	50333840004
Spike I.D.:	21-040	21-040
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.423	32.423
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.653	0.655
MS Target Conc. (pCi/L, g, F):	9.929	9.895
MSD Aliquot (L, g, F):	0.652	0.653
MSD Target Conc. (pCi/L, g, F):	9.951	9.930
MS Spike Uncertainty (calculated):	0.467	0.465
MSD Spike Uncertainty (calculated):	0.468	0.467
Sample Result:	0.571	0.387
Sample Result Counting Uncertainty (pCi/L, g, F):	0.320	0.300
Sample Matrix Spike Result:	11.852	8.242
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.489	1.221
Sample Matrix Spike Duplicate Result:	13.816	8.856
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.695	1.234
MS Numerical Performance Indicator:	1.663	-2.983
MSD Numerical Performance Indicator:	3.612	-2.117
MS Percent Recovery:	113.61%	79.38%
MSD Percent Recovery:	133.09%	85.29%
MS Status vs Numerical Indicator:	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	136%	136%
MS/MSD Lower % Recovery Limits:	71%	71%

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	50333823002	50333840002
Sample MS I.D.:	50333823003	50333840003
Sample MSD I.D.:	50333823004	50333840004
Sample Matrix Spike Result:	11.852	8.242
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.489	1.221
Sample Matrix Spike Duplicate Result:	13.816	8.856
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.695	1.234
Duplicate Numerical Performance Indicator:	-1.706	-0.694
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	15.79%	7.18%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A	N/A
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	32%	32%

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

Comments:

GDH
1/6/23
1/6/23



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 12/29/2022
Worklist: 70733
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2702083	
MB concentration:	0.061	
M/B 2 Sigma CSU:	0.293	
MB MDC:	0.672	
MB Numerical Performance Indicator:	0.41	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS70733	LCSD70733
Count Date:	1/5/2023	
Spike I.D.:	22-040	
Decay Corrected Spike Concentration (pCi/mL):	33.999	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.805	
Target Conc. (pCi/L, g, F):	4.225	
Uncertainty (Calculated):	0.207	
Result (pCi/L, g, F):	3.725	
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.908	
Numerical Performance Indicator:	-1.05	
Percent Recovery:	88.17%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	12/16/2022	12/16/2022
Sample I.D.:	50333823002	50333840002
Sample MS I.D.:	50333823003	50333840003
Sample MSD I.D.:	50333823004	50333840004
Spike I.D.:	22-040	22-040
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	34.227	34.227
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.809	0.811
MS Target Conc. (pCi/L, g, F):	8.459	8.445
MSD Aliquot (L, g, F):	0.813	0.809
MSD Target Conc. (pCi/L, g, F):	8.421	8.463
MS Spike Uncertainty (calculated):	0.414	0.414
MSD Spike Uncertainty (calculated):	0.413	0.415
Sample Result:	0.942	0.656
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.396	0.441
Sample Matrix Spike Result:	7.763	9.223
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.590	1.880
Sample Matrix Spike Duplicate Result:	9.501	9.805
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.906	1.978
MS Numerical Performance Indicator:	-1.899	0.120
MSD Numerical Performance Indicator:	0.136	0.650
MS Percent Recovery:	80.64%	101.44%
MSD Percent Recovery:	101.64%	108.10%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL? See Below ##		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	50333823002	50333840002
Sample MS I.D.:	50333823003	50333840003
Sample MSD I.D.:	50333823004	50333840004
Sample Matrix Spike Result:	7.763	9.223
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.590	1.880
Sample Matrix Spike Duplicate Result:	9.501	9.805
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.906	1.978
Duplicate Numerical Performance Indicator:	-1.372	-0.418
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	23.04%	6.36%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

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

Comments:

12/16/23

70733

January 30, 2023

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

RE: Project: LEC INACTIVE ASH POND
Pace Project No.: 60418306

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2022. 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 1/30/23

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

Sincerely,



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

Enclosures

cc: Shelly Gomez, Evergy
Laura Hines, Evergy, Inc.
Samantha Kaney, Haley & Aldrich
Danielle Oberbroeckling, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60418306001	MW-37-121622	Water	12/16/22 13:50	12/16/22 16:00
60418306002	MW-38-121622	Water	12/16/22 14:40	12/16/22 16:00
60418306003	MW-39-121622	Water	12/16/22 13:00	12/16/22 16:00
60418306004	MW-40-121622	Water	12/16/22 12:15	12/16/22 16:00
60418306005	MW-K-121622	Water	12/16/22 10:30	12/16/22 16:00
60418306006	MW-L-121622	Water	12/16/22 11:30	12/16/22 16:00
60418306007	LEC-AP-DUP-121622	Water	12/16/22 10:30	12/16/22 16:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60418306001	MW-37-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60418306002	MW-38-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60418306003	MW-39-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60418306004	MW-40-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60418306005	MW-K-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60418306006	MW-L-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K
60418306007	LEC-AP-DUP-121622	EPA 200.7	MA1	4	PASI-K
		EPA 6010	MA1	1	PASI-K
		EPA 200.8	MRV	7	PASI-K
		EPA 245.1	JXD	1	PASI-K
		EPA 300.0	RKA	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Date: January 30, 2023

Amended to include 245.1 mercury data

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: January 30, 2023

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: January 30, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: January 30, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Method: EPA 245.1

Description: 245.1 Mercury

Client: Evergy Kansas Central, Inc.

Date: January 30, 2023

General Information:

7 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.

H1: Analysis conducted outside the EPA method holding time.

- LEC-AP-DUP-121622 (Lab ID: 60418306007)
- MW-37-121622 (Lab ID: 60418306001)
- MW-38-121622 (Lab ID: 60418306002)
- MW-39-121622 (Lab ID: 60418306003)
- MW-40-121622 (Lab ID: 60418306004)
- MW-K-121622 (Lab ID: 60418306005)
- MW-L-121622 (Lab ID: 60418306006)

H2: Extraction or preparation conducted outside EPA method holding time.

- LEC-AP-DUP-121622 (Lab ID: 60418306007)
- MW-37-121622 (Lab ID: 60418306001)
- MW-38-121622 (Lab ID: 60418306002)
- MW-39-121622 (Lab ID: 60418306003)
- MW-40-121622 (Lab ID: 60418306004)
- MW-K-121622 (Lab ID: 60418306005)
- MW-L-121622 (Lab ID: 60418306006)

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: January 30, 2023

General Information:

7 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: 824724

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60418306002,60418355001

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

- MS (Lab ID: 3277777)
 - Sulfate
- MS (Lab ID: 3277779)
 - Fluoride
- MSD (Lab ID: 3277778)
 - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 824724

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

- MS (Lab ID: 3277777)
 - Sulfate
- MS (Lab ID: 3277779)
 - Sulfate
- MSD (Lab ID: 3277778)
 - Sulfate

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

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Sample: MW-37-121622	Lab ID: 60418306001	Collected: 12/16/22 13:50	Received: 12/16/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.073	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:35	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:35	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:35	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:35	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.020	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:10	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	12/20/22 07:21	01/03/23 15:15	7440-36-0	
Arsenic, Total Recoverable	0.0049	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:15	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:15	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:15	7440-48-4	
Molybdenum, Total Recoverable	0.084	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:15	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:15	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:15	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:17	7439-97-6	H1,H2
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	61.8	mg/L	20.0	20		12/23/22 14:46	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		12/23/22 14:33	16984-48-8	
Sulfate	349	mg/L	20.0	20		12/23/22 14:46	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Sample: MW-38-121622	Lab ID: 60418306002	Collected: 12/16/22 14:40	Received: 12/16/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.045	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:41	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:41	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:41	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:41	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.047	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:16	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	12/20/22 07:21	01/03/23 15:00	7440-36-0	
Arsenic, Total Recoverable	0.020	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:00	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:00	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:00	7440-48-4	
Molybdenum, Total Recoverable	0.059	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:00	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:00	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:00	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:24	7439-97-6	H1,H2
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	106	mg/L	20.0	20		12/23/22 16:07	16887-00-6	
Fluoride	3.6	mg/L	0.20	1		12/23/22 15:40	16984-48-8	M1
Sulfate	492	mg/L	50.0	50		12/23/22 16:33	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Sample: MW-39-121622	Lab ID: 60418306003	Collected: 12/16/22 13:00	Received: 12/16/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.030	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:43	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:43	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:43	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:43	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.034	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:18	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:19	7440-36-0	
Arsenic, Total Recoverable	0.010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:19	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:19	7440-43-9	
Cobalt, Total Recoverable	0.0011	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:19	7440-48-4	
Molybdenum, Total Recoverable	0.27	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:19	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:19	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:19	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:26	7439-97-6	H1,H2
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	497	mg/L	50.0	50		12/23/22 17:27	16887-00-6	
Fluoride	0.73	mg/L	0.20	1		12/23/22 17:00	16984-48-8	
Sulfate	1790	mg/L	200	200		12/27/22 11:22	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Sample: MW-40-121622	Lab ID: 60418306004	Collected: 12/16/22 12:15	Received: 12/16/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.033	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:45	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:45	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:45	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:45	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.042	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:20	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:23	7440-36-0	
Arsenic, Total Recoverable	0.014	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:23	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:23	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:23	7440-48-4	
Molybdenum, Total Recoverable	0.067	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:23	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:23	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:23	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:29	7439-97-6	H1,H2
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	306	mg/L	50.0	50		12/23/22 18:34	16887-00-6	
Fluoride	0.45	mg/L	0.20	1		12/23/22 17:40	16984-48-8	
Sulfate	1690	mg/L	200	200		12/27/22 12:16	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Sample: MW-K-121622	Lab ID: 60418306005	Collected: 12/16/22 10:30	Received: 12/16/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.046	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:47	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:47	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:47	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:47	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.045	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:22	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:30	7440-36-0	
Arsenic, Total Recoverable	0.082	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:30	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:30	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:30	7440-48-4	
Molybdenum, Total Recoverable	0.030	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:30	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:30	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:30	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:31	7439-97-6	H1,H2
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	170	mg/L	20.0	20		12/27/22 12:29	16887-00-6	
Fluoride	3.5	mg/L	0.20	1		12/23/22 18:47	16984-48-8	
Sulfate	838	mg/L	50.0	50		12/23/22 19:14	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Sample: MW-L-121622	Lab ID: 60418306006	Collected: 12/16/22 11:30	Received: 12/16/22 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.042	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:55	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:55	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:55	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:55	7439-92-1	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.081	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:30	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:34	7440-36-0	
Arsenic, Total Recoverable	0.023	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:34	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:34	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:34	7440-48-4	
Molybdenum, Total Recoverable	0.046	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:34	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:34	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:34	7440-28-0	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:33	7439-97-6	H1,H2
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	1030	mg/L	200	200		12/27/22 12:56	16887-00-6	
Fluoride	2.0	mg/L	0.20	1		12/23/22 19:27	16984-48-8	
Sulfate	2430	mg/L	200	200		12/27/22 12:56	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: LEC-AP-DUP-121622 Lab ID: 60418306007 Collected: 12/16/22 10:30 Received: 12/16/22 16:00 Matrix: Water								
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.044	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:57	7440-39-3	
Beryllium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	12/23/22 10:57	7440-41-7	
Chromium, Total Recoverable	<0.0050	mg/L	0.0050	1	12/20/22 07:21	12/23/22 10:57	7440-47-3	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	12/20/22 07:21	12/23/22 10:57	7439-92-1	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.046	mg/L	0.010	1	12/20/22 07:21	12/23/22 11:32	7439-93-2	
200.8 MET ICPMS Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City								
Antimony, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:37	7440-36-0	
Arsenic, Total Recoverable	0.081	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:37	7440-38-2	
Cadmium, Total Recoverable	<0.00050	mg/L	0.00050	1	12/20/22 07:21	01/03/23 15:37	7440-43-9	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:37	7440-48-4	
Molybdenum, Total Recoverable	0.030	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:37	7439-98-7	
Selenium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:37	7782-49-2	
Thallium, Total Recoverable	<0.0010	mg/L	0.0010	1	12/20/22 07:21	01/03/23 15:37	7440-28-0	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 Pace Analytical Services - Kansas City								
Mercury	<0.20	ug/L	0.20	1	01/27/23 09:11	01/30/23 09:40	7439-97-6	H1,H2
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	149	mg/L	20.0	20		12/27/22 13:09	16887-00-6	
Fluoride	3.7	mg/L	0.20	1		12/23/22 20:07	16984-48-8	
Sulfate	539	mg/L	50.0	50		12/23/22 21:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

QC Batch:	829454	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

METHOD BLANK: 3293130 Matrix: Water
Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	01/30/23 09:13	

LABORATORY CONTROL SAMPLE: 3293131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3293132 3293133

Parameter	Units	60418306001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.20	5	5	4.3	4.2	85	83	70-130	3	20	H1

MATRIX SPIKE SAMPLE: 3293134

Parameter	Units	60418306002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.20	5	4.7	93	70-130	H1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

QC Batch:	823990	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

METHOD BLANK: 3275044 Matrix: Water
Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	12/23/22 10:31	
Beryllium	mg/L	<0.0010	0.0010	12/23/22 10:31	
Chromium	mg/L	<0.0050	0.0050	12/23/22 10:31	
Lead	mg/L	<0.010	0.010	12/23/22 10:31	

LABORATORY CONTROL SAMPLE: 3275045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.97	97	85-115	
Beryllium	mg/L	1	1.0	102	85-115	
Chromium	mg/L	1	0.99	99	85-115	
Lead	mg/L	1	0.98	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3275046 3275047

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60418306001 Result	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.073	1	1	1.0	1.0	94	95	70-130	1	20
Beryllium	mg/L	<0.0010	1	1	0.97	0.98	97	98	70-130	2	20
Chromium	mg/L	<0.0050	1	1	0.93	0.94	93	94	70-130	1	20
Lead	mg/L	<0.010	1	1	0.97	0.97	97	97	70-130	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

QC Batch:	823991	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: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

METHOD BLANK:	3275048	Matrix:	Water
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Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	<0.0010	0.0010	01/03/23 14:55	
Arsenic	mg/L	<0.0010	0.0010	01/03/23 14:55	
Cadmium	mg/L	<0.00050	0.00050	01/03/23 14:55	
Cobalt	mg/L	<0.0010	0.0010	01/03/23 14:55	
Molybdenum	mg/L	<0.0010	0.0010	01/03/23 14:55	
Selenium	mg/L	<0.0010	0.0010	01/03/23 14:55	
Thallium	mg/L	<0.0010	0.0010	01/03/23 14:55	

LABORATORY CONTROL SAMPLE: 3275049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.039	98	85-115	
Arsenic	mg/L	0.04	0.038	94	85-115	
Cadmium	mg/L	0.04	0.039	97	85-115	
Cobalt	mg/L	0.04	0.039	96	85-115	
Molybdenum	mg/L	0.04	0.039	97	85-115	
Selenium	mg/L	0.04	0.039	96	85-115	
Thallium	mg/L	0.04	0.038	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3275050 3275051

Parameter	Units	60418306002		3275051		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	<0.0010	0.04	0.04	0.039	0.039	97	96	70-130	1	20
Arsenic	mg/L	0.020	0.04	0.04	0.058	0.058	94	94	70-130	0	20
Cadmium	mg/L	<0.00050	0.04	0.04	0.037	0.037	92	92	70-130	0	20
Cobalt	mg/L	<0.0010	0.04	0.04	0.038	0.037	94	93	70-130	1	20
Molybdenum	mg/L	0.059	0.04	0.04	0.10	0.10	103	103	70-130	0	20
Selenium	mg/L	<0.0010	0.04	0.04	0.036	0.036	90	90	70-130	0	20
Thallium	mg/L	<0.0010	0.04	0.04	0.038	0.037	95	93	70-130	1	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

QC Batch:	823992	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

METHOD BLANK: 3275052 Matrix: Water

Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	12/23/22 11:05	

LABORATORY CONTROL SAMPLE: 3275053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3275054 3275055

Parameter	Units	60418306001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.020	1	1	0.98	0.98	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND
Pace Project No.: 60418306

QC Batch: 824724 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

METHOD BLANK: 3277775 Matrix: Water
Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	12/23/22 09:08	
Fluoride	mg/L	<0.20	0.20	12/23/22 09:08	
Sulfate	mg/L	<1.0	1.0	12/23/22 09:08	

METHOD BLANK: 3278667 Matrix: Water
Associated Lab Samples: 60418306001, 60418306002, 60418306003, 60418306004, 60418306005, 60418306006, 60418306007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	12/27/22 09:09	
Fluoride	mg/L	<0.20	0.20	12/27/22 09:09	
Sulfate	mg/L	<1.0	1.0	12/27/22 09:09	

LABORATORY CONTROL SAMPLE: 3277776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	100	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	5	5.2	104	90-110	

LABORATORY CONTROL SAMPLE: 3278668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	103	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	5	5.2	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3277777 3277778

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60418355001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.7	5	5	7.1	6.8	109	103	80-120	5	15		
Fluoride	mg/L	0.13J	2.5	2.5	2.7	2.5	102	94	80-120	7	15		
Sulfate	mg/L	240	200	200	533	496	146	128	80-120	7	15	E,M1	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

MATRIX SPIKE SAMPLE:		3277779					
Parameter	Units	60418306002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	106	100	253	147	80-120	
Fluoride	mg/L	3.6	5	9.9	125	80-120	M1
Sulfate	mg/L	492	500	1040	109	80-120	E

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

H1 Analysis conducted outside the EPA method holding time.

H2 Extraction or preparation conducted outside EPA method holding time.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60418306

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60418306001	MW-37-121622	EPA 200.7	823990	EPA 200.7	824051
60418306002	MW-38-121622	EPA 200.7	823990	EPA 200.7	824051
60418306003	MW-39-121622	EPA 200.7	823990	EPA 200.7	824051
60418306004	MW-40-121622	EPA 200.7	823990	EPA 200.7	824051
60418306005	MW-K-121622	EPA 200.7	823990	EPA 200.7	824051
60418306006	MW-L-121622	EPA 200.7	823990	EPA 200.7	824051
60418306007	LEC-AP-DUP-121622	EPA 200.7	823990	EPA 200.7	824051
60418306001	MW-37-121622	EPA 3010	823992	EPA 6010	824053
60418306002	MW-38-121622	EPA 3010	823992	EPA 6010	824053
60418306003	MW-39-121622	EPA 3010	823992	EPA 6010	824053
60418306004	MW-40-121622	EPA 3010	823992	EPA 6010	824053
60418306005	MW-K-121622	EPA 3010	823992	EPA 6010	824053
60418306006	MW-L-121622	EPA 3010	823992	EPA 6010	824053
60418306007	LEC-AP-DUP-121622	EPA 3010	823992	EPA 6010	824053
60418306001	MW-37-121622	EPA 200.8	823991	EPA 200.8	824052
60418306002	MW-38-121622	EPA 200.8	823991	EPA 200.8	824052
60418306003	MW-39-121622	EPA 200.8	823991	EPA 200.8	824052
60418306004	MW-40-121622	EPA 200.8	823991	EPA 200.8	824052
60418306005	MW-K-121622	EPA 200.8	823991	EPA 200.8	824052
60418306006	MW-L-121622	EPA 200.8	823991	EPA 200.8	824052
60418306007	LEC-AP-DUP-121622	EPA 200.8	823991	EPA 200.8	824052
60418306001	MW-37-121622	EPA 245.1	829454	EPA 245.1	829528
60418306002	MW-38-121622	EPA 245.1	829454	EPA 245.1	829528
60418306003	MW-39-121622	EPA 245.1	829454	EPA 245.1	829528
60418306004	MW-40-121622	EPA 245.1	829454	EPA 245.1	829528
60418306005	MW-K-121622	EPA 245.1	829454	EPA 245.1	829528
60418306006	MW-L-121622	EPA 245.1	829454	EPA 245.1	829528
60418306007	LEC-AP-DUP-121622	EPA 245.1	829454	EPA 245.1	829528
60418306001	MW-37-121622	EPA 300.0	824724		
60418306002	MW-38-121622	EPA 300.0	824724		
60418306003	MW-39-121622	EPA 300.0	824724		
60418306004	MW-40-121622	EPA 300.0	824724		
60418306005	MW-K-121622	EPA 300.0	824724		
60418306006	MW-L-121622	EPA 300.0	824724		
60418306007	LEC-AP-DUP-121622	EPA 300.0	824724		

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-LENE-0009_Sample

Revision: 2

Effective Date: 01/12/2022

WO#: 60418306



60418306

Client Name: Energy Kansas Central

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam Nono Other

Thermometer Used: T296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 0.4 Corr. Factor -0.1 Corrected 0.3

Date and initials of person examining contents:
AF 12/19

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Cooler 2-0.7°</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

LOT#: 6204001

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: EVERGY KANSAS CENTRAL, INC.		Report To: Jake Humphrey		Attention: Accounts Payable	
Address: 400 E Van Buren St Suite 545 Phoenix, AZ 85004		Copy To: Laura Hines, Samantha Kaney, Melissa Michels Danielle Oberbroeckling		Company Name: EVERGY KANSAS CENTRAL, INC	
Email To: doberbroeckling@haleyaldrich.com		Purchase Order No.: 10JEC-0000047747		Address: SEE SECTION A	
Phone: 507-251-2232 Fax:		Project Name: LEC Inactive Ash Pond		Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Alice Spiller, 913-563-1403	
				Pace Profile #: 9657, 2	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
				Site Location STATE: <u>KS</u>	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)													
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃		Methanol	Other	200.7 Ba, Be, Cr, Pb	200.8 Sb, As, Cd, Co	200.8 Mo, Se, Ti	6010 Lithium		300.0 Cl, F, S												
		DRINKING WATER	DW			DATE	TIME	DATE	TIME												X	X	X	X		X												
		WATER	WT																		X	X	X	X		X												
1	MW-37-121622			WT	G	-	-	12/16/22	1350	-	2	1	1								X	X	X	X	X													
2	MW-38-121622			WT	G	-	-	12/16/22	1440	-	2	1	1								X	X	X	X	X													
3	MW-39-121622			WT	G	-	-	12/16/22	1300	-	2	1	1								X	X	X	X	X													
4	MW-40-121622			WT	G	-	-	12/16/22	1245	-	2	1	1								X	X	X	X	X													
5	MW-K-121622			WT	G	-	-	12/16/22	1030	-	2	1	1								X	X	X	X	X													
6	MW-L-121622			WT	G	-	-	12/16/22	1130	-	2	1	1								X	X	X	X	X													
7	LEC AP-DUP-121622			WT	G	-	-	12/16/22	1030	-	2	1	1								X	X	X	X	X													
8																																						
9																																						
10																																						
11																																						
12																																						

60418306

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	Matt VanderPutten / SCS	12/16/22	1600	<i>[Signature]</i>	12/16/22	1600	0.3	Y	N

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Matt VanderPutten							
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed (MM/DD/YY): 12/16/22				

Client: Energy Kansas Central

Profile # 1657-2

Site: LEL Inactive Ash Pond

Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other	
1	WT																				/		/								
2																					/		/								
3																					/		/								
4																					/		/								
5																					/		/								
6																					/		/								
7																					/		/								
8																					/		/								
9																					/		/								
10																					/		/								
11																					/		/								
12																					/		/								

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unres amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number:

60418306

Attachment 2-3
March 2023 Semi-Annual Sampling Event
Laboratory Analytical Reports

May 01, 2023

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

RE: Project: LEC PERIMETER ASH POND WELLS C-Revised Report
Pace Project No.: 60423617

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2023. 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

REVISION_1 05/01/23

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

Sincerely,



Angie Brown for
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
Danielle Oberbroeckling, Haley & Aldrich
Danielle Oberbroeckling, Haley Aldrich
Adriana Sosa, Haley & Aldrich, Inc.
Andrew Watson, Haley & Aldrich



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60423617001	MW-101-030723	Water	03/07/23 12:55	03/09/23 14:20
60423617002	MW-102-030823	Water	03/08/23 10:30	03/09/23 14:20
60423617003	MW-103-030823	Water	03/08/23 14:00	03/09/23 14:20
60423617004	MW-104-030823	Water	03/08/23 11:50	03/09/23 14:20
60423617005	MW-107-030723	Water	03/08/23 11:10	03/09/23 14:20
60423617006	MW-108-030723	Water	03/08/23 10:40	03/09/23 14:20
60423617007	MW-109-030823	Water	03/08/23 15:20	03/09/23 14:20
60423617008	MW-110-030723	Water	03/07/23 13:45	03/09/23 14:20
60423617009	MW-112-030723	Water	03/07/23 14:55	03/09/23 14:20
60423617010	MW-113-030723	Water	03/07/23 12:35	03/09/23 14:20
60423617011	MW-A-030824	Water	03/08/23 10:20	03/09/23 14:20
60423617012	MW-B-030823	Water	03/08/23 09:50	03/09/23 14:20
60423617013	MW-D-030823	Water	03/08/23 15:35	03/09/23 14:20
60423617014	MW-N-030723	Water	03/07/23 11:35	03/09/23 14:20
60423617015	MW-O-030723	Water	03/07/23 13:50	03/09/23 14:20
60423617016	MW-P-030823	Water	03/08/23 12:55	03/09/23 14:20
60423617017	DUP 01-LEC PAW-030723	Water	03/07/23 08:00	03/09/23 14:20
60423617018	DUP 02-LEC PAW-030723	Water	03/07/23 08:00	03/09/23 14:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
60423617001	MW-101-030723	EPA 200.7	ALH	8	PASI-K		
		EPA 200.7	ALH	2	PASI-K		
		EPA 6010	ALH	1	PASI-K		
		EPA 6010	ALH	1	PASI-K		
		EPA 200.8	MA1	4	PASI-K		
		EPA 200.8	MA1	2	PASI-K		
		SM 2320B	BLA	3	PASI-K		
		SM 2540C	MLD	1	PASI-K		
		SM 3500-Fe B#4	CRN2	1	PASI-K		
		SM 4500-H+B	CRN2	1	PASI-K		
		SM 4500-S-2 D	CRN2	1	PASI-K		
		EPA 300.0	CRN2	3	PASI-K		
		SM 5310C	BLA	1	PASI-K		
		SM 5310C	BLA	1	PASI-K		
		60423617002	MW-102-030823	EPA 200.7	ALH	8	PASI-K
				EPA 200.7	ALH	2	PASI-K
EPA 6010	ALH			1	PASI-K		
EPA 6010	ALH			1	PASI-K		
EPA 200.8	MA1			4	PASI-K		
EPA 200.8	MA1			2	PASI-K		
SM 2320B	BLA			3	PASI-K		
SM 2540C	MLD			1	PASI-K		
SM 3500-Fe B#4	CRN2			1	PASI-K		
SM 4500-H+B	CRN2			1	PASI-K		
SM 4500-S-2 D	CRN2			1	PASI-K		
EPA 300.0	CRN2			3	PASI-K		
SM 5310C	BLA			1	PASI-K		
SM 5310C	BLA			1	PASI-K		
60423617003	MW-103-030823			EPA 200.7	ALH	8	PASI-K
				EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K		
		EPA 6010	ALH	1	PASI-K		
		EPA 200.8	MA1	4	PASI-K		
		EPA 200.8	MA1	2	PASI-K		
		SM 2320B	BLA	3	PASI-K		
		SM 2540C	MLD	1	PASI-K		
		SM 3500-Fe B#4	CRN2	1	PASI-K		

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617004	MW-104-030823	EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617005	MW-107-030723	EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617006	MW-108-030723	EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423617007	MW-109-030823	EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		60423617008	MW-110-030723	SM 2320B	BLA
SM 2540C	MLD			1	PASI-K
SM 3500-Fe B#4	CRN2			1	PASI-K
SM 4500-H+B	RB			1	PASI-K
SM 4500-S-2 D	CRN2			1	PASI-K
EPA 300.0	CRN2			3	PASI-K
SM 5310C	BLA			1	PASI-K
SM 5310C	BLA			1	PASI-K
EPA 200.7	ALH			8	PASI-K
EPA 200.7	ALH			2	PASI-K
EPA 6010	ALH			1	PASI-K
EPA 6010	ALH			1	PASI-K
EPA 200.8	MA1			4	PASI-K
EPA 200.8	MA1			2	PASI-K
SM 2320B	BLA			3	PASI-K
SM 2540C	MLD			1	PASI-K
SM 3500-Fe B#4	CRN2			1	PASI-K
SM 4500-H+B	CRN2	1	PASI-K		
SM 4500-S-2 D	CRN2	1	PASI-K		
EPA 300.0	CRN2	3	PASI-K		
SM 5310C	BLA	1	PASI-K		

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423617009	MW-112-030723	SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617010	MW-113-030723	SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617011	MW-A-030824	SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423617012	MW-B-030823	SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		60423617013	MW-D-030823	SM 3500-Fe B#4	CRN2
SM 4500-H+B	CRN2			1	PASI-K
SM 4500-S-2 D	CRN2			1	PASI-K
EPA 300.0	CRN2			3	PASI-K
SM 5310C	BLA			1	PASI-K
SM 5310C	BLA			1	PASI-K
EPA 200.7	ALH			8	PASI-K
EPA 200.7	ALH			2	PASI-K
EPA 6010	ALH			1	PASI-K
EPA 6010	ALH			1	PASI-K
EPA 200.8	MA1			4	PASI-K
EPA 200.8	MA1			2	PASI-K
SM 2320B	BLA			3	PASI-K
SM 2540C	MLD			1	PASI-K
60423617014	MW-N-030723			SM 3500-Fe B#4	CRN2
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617015	MW-O-030723	EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423617016	MW-P-030823	EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423617017	DUP 01-LEC PAW-030723	SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423617018	DUP 02-LEC PAW-030723	SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	8	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	4	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-H+B	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
SM 5310C	BLA	1	PASI-K		
SM 5310C	BLA	1	PASI-K		

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Date: May 01, 2023

Revision 1:

Amended to correct reporting units and metals list to reflect the requested lists.

Revision 2:

Amended report to include total Lithium results for all samples.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 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: 835951

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617001,60423617002

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

- MS (Lab ID: 3315879)
 - Boron
 - Calcium
 - Magnesium
 - Potassium
 - Sodium

QC Batch: 835954

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617016

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

- MS (Lab ID: 3315892)
 - Calcium
- MSD (Lab ID: 3315893)
 - Calcium

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 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.

QC Batch: 835952

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617002,60423617011

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

- MS (Lab ID: 3315885)
- Manganese

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 200.8

Description: 200.8 MET ICPMS, Dissolved

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 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:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 samples were analyzed for SM 3500-Fe B#4 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.

- DUP 01-LEC PAW-030723 (Lab ID: 60423617017)
- DUP 02-LEC PAW-030723 (Lab ID: 60423617018)
- MW-101-030723 (Lab ID: 60423617001)
- MW-102-030823 (Lab ID: 60423617002)
- MW-103-030823 (Lab ID: 60423617003)
- MW-104-030823 (Lab ID: 60423617004)
- MW-107-030723 (Lab ID: 60423617005)
- MW-108-030723 (Lab ID: 60423617006)
- MW-109-030823 (Lab ID: 60423617007)
- MW-110-030723 (Lab ID: 60423617008)
- MW-112-030723 (Lab ID: 60423617009)
- MW-113-030723 (Lab ID: 60423617010)
- MW-A-030824 (Lab ID: 60423617011)
- MW-B-030823 (Lab ID: 60423617012)
- MW-D-030823 (Lab ID: 60423617013)
- MW-N-030723 (Lab ID: 60423617014)
- MW-O-030723 (Lab ID: 60423617015)
- MW-P-030823 (Lab ID: 60423617016)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 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.

- DUP 01-LEC PAW-030723 (Lab ID: 60423617017)
- DUP 02-LEC PAW-030723 (Lab ID: 60423617018)
- MW-101-030723 (Lab ID: 60423617001)
- MW-102-030823 (Lab ID: 60423617002)
- MW-103-030823 (Lab ID: 60423617003)
- MW-104-030823 (Lab ID: 60423617004)
- MW-107-030723 (Lab ID: 60423617005)
- MW-108-030723 (Lab ID: 60423617006)
- MW-109-030823 (Lab ID: 60423617007)
- MW-110-030723 (Lab ID: 60423617008)
- MW-112-030723 (Lab ID: 60423617009)
- MW-113-030723 (Lab ID: 60423617010)
- MW-A-030824 (Lab ID: 60423617011)
- MW-B-030823 (Lab ID: 60423617012)
- MW-D-030823 (Lab ID: 60423617013)
- MW-N-030723 (Lab ID: 60423617014)
- MW-O-030723 (Lab ID: 60423617015)
- MW-P-030823 (Lab ID: 60423617016)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 samples were analyzed for SM 4500-S-2 D 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: 836470

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423484001

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

- MS (Lab ID: 3317603)
 - Sulfide, Total
- MSD (Lab ID: 3317604)
 - Sulfide, Total

QC Batch: 836678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617003

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

- MS (Lab ID: 3318133)
 - Sulfide, Total
- MSD (Lab ID: 3318134)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 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: 836869

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617005

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

- MS (Lab ID: 3318990)
- Chloride

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 samples were analyzed for SM 5310C 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: May 01, 2023

General Information:

18 samples were analyzed for SM 5310C 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:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-101-030723	Lab ID: 60423617001	Collected: 03/07/23 12:55	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.14	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:17	7440-39-3	
Boron, Total Recoverable	0.32	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:17	7440-42-8	
Calcium, Total Recoverable	97.0	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:17	7440-70-2	
Hardness, Magnesium (SM 2340B)	91.9	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:17		
Iron, Total Recoverable	0.87	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:17	7439-89-6	
Magnesium, Total Recoverable	22.3	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:17	7439-95-4	
Potassium, Total Recoverable	6.2	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:17	7440-09-7	
Sodium, Total Recoverable	18.9	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:17	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.48	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:01	7439-89-6	
Manganese, Dissolved	0.18	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:01	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.020	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:19	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.021	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:00	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0015	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:17	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:17	7440-48-4	
Manganese, Total Recoverable	0.10	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:17	7439-96-5	
Molybdenum, Total Recoverable	0.027	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:17	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.0010	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:43	7440-38-2	
Molybdenum, Dissolved	0.025	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:43	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	296	mg/L	20.0	1		03/16/23 13:22		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 13:22		
Alkalinity, Total as CaCO ₃	296	mg/L	20.0	1		03/16/23 13:22		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	475	mg/L	10.0	1		03/13/23 14:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-101-030723	Lab ID: 60423617001	Collected: 03/07/23 12:55	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:42	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:15	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	51.1	mg/L	20.0	20		03/16/23 23:40	16887-00-6	
Fluoride	0.88	mg/L	0.20	1		03/16/23 23:27	16984-48-8	
Sulfate	34.9	mg/L	20.0	20		03/16/23 23:40	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.1	mg/L	1.0	1		03/16/23 18:00	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.6	mg/L	1.0	1		03/15/23 12:04		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-102-030823	Lab ID: 60423617002	Collected: 03/08/23 10:30	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.12	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:23	7440-39-3	
Boron, Total Recoverable	0.42	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:23	7440-42-8	M1
Calcium, Total Recoverable	117	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:23	7440-70-2	M1
Hardness, Magnesium (SM 2340B)	134	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:23		
Iron, Total Recoverable	1.1	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:23	7439-89-6	
Magnesium, Total Recoverable	32.5	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:23	7439-95-4	M1
Potassium, Total Recoverable	8.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:23	7440-09-7	M1
Sodium, Total Recoverable	10.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:23	7440-23-5	M1
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.90	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:07	7439-89-6	
Manganese, Dissolved	0.41	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:07	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.030	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:25	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.030	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:06	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.011	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:20	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:20	7440-48-4	
Manganese, Total Recoverable	0.34	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:20	7439-96-5	
Molybdenum, Total Recoverable	0.041	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:20	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0060	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:45	7440-38-2	
Molybdenum, Dissolved	0.036	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:45	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	377	mg/L	20.0	1		03/16/23 15:38		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 15:38		
Alkalinity, Total as CaCO ₃	377	mg/L	20.0	1		03/16/23 15:38		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	542	mg/L	10.0	1		03/13/23 14:55		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-102-030823		Lab ID: 60423617002		Collected: 03/08/23 10:30	Received: 03/09/23 14:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:46	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.5	Std. Units	0.10	1		03/13/23 15:55		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:19	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	17.2	mg/L	1.0	1		03/16/23 23:53	16887-00-6	
Fluoride	1.6	mg/L	0.20	1		03/16/23 23:53	16984-48-8	
Sulfate	69.0	mg/L	20.0	20		03/17/23 00:07	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	1.4	mg/L	1.0	1		03/16/23 11:43	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.5	mg/L	1.0	1		03/15/23 12:35		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-103-030823	Lab ID: 60423617003	Collected: 03/08/23 14:00	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.043	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:25	7440-39-3	
Boron, Total Recoverable	4.0	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:25	7440-42-8	
Calcium, Total Recoverable	328	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:25	7440-70-2	
Hardness, Magnesium (SM 2340B)	212	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:25		
Iron, Total Recoverable	5.4	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:25	7439-89-6	
Magnesium, Total Recoverable	51.4	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:25	7439-95-4	
Potassium, Total Recoverable	22.5	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:25	7440-09-7	
Sodium, Total Recoverable	240	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:25	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	3.9	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:09	7439-89-6	
Manganese, Dissolved	1.5	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:09	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.044	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:27	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.042	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:08	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0071	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:28	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:28	7440-48-4	
Manganese, Total Recoverable	1.8	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:28	7439-96-5	
Molybdenum, Total Recoverable	0.20	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:28	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0046	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:53	7440-38-2	
Molybdenum, Dissolved	0.19	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:53	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO3)	289	mg/L	20.0	1		03/16/23 15:45		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		03/16/23 15:45		
Alkalinity, Total as CaCO3	289	mg/L	20.0	1		03/16/23 15:45		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1990	mg/L	20.0	1		03/13/23 14:55		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-103-030823	Lab ID: 60423617003	Collected: 03/08/23 14:00	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:48	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/13/23 16:29		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:24	18496-25-8	M1
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	195	mg/L	20.0	20		03/17/23 00:33	16887-00-6	
Fluoride	0.79	mg/L	0.20	1		03/17/23 00:20	16984-48-8	
Sulfate	1040	mg/L	200	200		03/20/23 17:54	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.7	mg/L	1.0	1		03/16/23 12:13	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	5.6	mg/L	1.0	1		03/15/23 12:50		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-104-030823	Lab ID: 60423617004	Collected: 03/08/23 11:50	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.041	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:27	7440-39-3	
Boron, Total Recoverable	1.8	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:27	7440-42-8	
Calcium, Total Recoverable	310	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:27	7440-70-2	
Hardness, Magnesium (SM 2340B)	135	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:27		
Iron, Total Recoverable	3.9	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:27	7439-89-6	
Magnesium, Total Recoverable	32.9	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:27	7439-95-4	
Potassium, Total Recoverable	38.5	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:27	7440-09-7	
Sodium, Total Recoverable	177	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:27	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.084	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:11	7439-89-6	
Manganese, Dissolved	1.1	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:11	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.057	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:29	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.058	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:10	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0022	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:33	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:33	7440-48-4	
Manganese, Total Recoverable	1.6	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:33	7439-96-5	
Molybdenum, Total Recoverable	0.050	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:33	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.0010	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:59	7440-38-2	
Molybdenum, Dissolved	0.047	mg/L	0.0010	1	03/13/23 11:02	03/21/23 11:59	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	380	mg/L	20.0	1		03/16/23 15:51		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 15:51		
Alkalinity, Total as CaCO ₃	380	mg/L	20.0	1		03/16/23 15:51		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1820	mg/L	20.0	1		03/13/23 14:56		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-104-030823		Lab ID: 60423617004		Collected: 03/08/23 11:50	Received: 03/09/23 14:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:47	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		03/13/23 16:14		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:25	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	193	mg/L	20.0	20		03/17/23 01:00	16887-00-6	
Fluoride	0.68	mg/L	0.20	1		03/17/23 00:47	16984-48-8	
Sulfate	722	mg/L	100	100		03/20/23 18:08	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.6	mg/L	1.0	1		03/16/23 12:28	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	4.9	mg/L	1.0	1		03/15/23 13:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-107-030723	Lab ID: 60423617005	Collected: 03/08/23 11:10	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.13	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:30	7440-39-3	
Boron, Total Recoverable	0.12	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:30	7440-42-8	
Calcium, Total Recoverable	111	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:30	7440-70-2	
Hardness, Magnesium (SM 2340B)	112	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:30		
Iron, Total Recoverable	0.75	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:30	7439-89-6	
Magnesium, Total Recoverable	27.2	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:30	7439-95-4	
Potassium, Total Recoverable	8.5	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:30	7440-09-7	
Sodium, Total Recoverable	5.2	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:30	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:13	7439-89-6	
Manganese, Dissolved	0.13	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:13	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.022	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:31	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.022	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:12	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0057	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:36	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:36	7440-48-4	
Manganese, Total Recoverable	0.16	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:36	7439-96-5	
Molybdenum, Total Recoverable	0.021	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:36	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0023	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:01	7440-38-2	
Molybdenum, Dissolved	0.021	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:01	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	374	mg/L	20.0	1		03/16/23 15:58		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 15:58		
Alkalinity, Total as CaCO ₃	374	mg/L	20.0	1		03/16/23 15:58		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	483	mg/L	10.0	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-107-030723		Lab ID: 60423617005		Collected: 03/08/23 11:10	Received: 03/09/23 14:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:47	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		03/13/23 16:08		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:25	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	8.5	mg/L	1.0	1		03/17/23 11:26	16887-00-6	M1
Fluoride	1.2	mg/L	0.20	1		03/17/23 11:26	16984-48-8	
Sulfate	56.4	mg/L	10.0	10		03/21/23 14:06	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	1.4	mg/L	1.0	1		03/16/23 12:59	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.5	mg/L	1.0	1		03/15/23 13:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-108-030723	Lab ID: 60423617006	Collected: 03/08/23 10:40	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.18	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:38	7440-39-3	
Boron, Total Recoverable	0.17	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:38	7440-42-8	
Calcium, Total Recoverable	99.7	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:38	7440-70-2	
Hardness, Magnesium (SM 2340B)	78.2	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:38		
Iron, Total Recoverable	0.34	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:38	7439-89-6	
Magnesium, Total Recoverable	19.0	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:38	7439-95-4	
Potassium, Total Recoverable	8.3	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:38	7440-09-7	
Sodium, Total Recoverable	21.0	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:38	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:21	7439-89-6	
Manganese, Dissolved	0.0087	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:21	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.018	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:40	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.018	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:20	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0022	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:38	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:38	7440-48-4	
Manganese, Total Recoverable	0.024	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:38	7439-96-5	
Molybdenum, Total Recoverable	0.026	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:38	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0016	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:04	7440-38-2	
Molybdenum, Dissolved	0.025	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:04	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	284	mg/L	20.0	1		03/22/23 10:07		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 10:07		
Alkalinity, Total as CaCO ₃	284	mg/L	20.0	1		03/22/23 10:07		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	487	mg/L	10.0	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-108-030723	Lab ID: 60423617006	Collected: 03/08/23 10:40	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:46	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/13/23 16:02		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:25	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	51.2	mg/L	10.0	10		03/21/23 14:46	16887-00-6	
Fluoride	1.4	mg/L	0.20	1		03/17/23 12:46	16984-48-8	
Sulfate	23.3	mg/L	10.0	10		03/21/23 14:46	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.3	mg/L	1.0	1		03/16/23 13:14	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.7	mg/L	1.0	1		03/15/23 14:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-109-030823	Lab ID: 60423617007	Collected: 03/08/23 15:20	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.029	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:40	7440-39-3	
Boron, Total Recoverable	4.8	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:40	7440-42-8	
Calcium, Total Recoverable	496	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:40	7440-70-2	
Hardness, Magnesium (SM 2340B)	514	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:40		
Iron, Total Recoverable	4.6	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:40	7439-89-6	
Magnesium, Total Recoverable	125	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:40	7439-95-4	
Potassium, Total Recoverable	26.0	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:40	7440-09-7	
Sodium, Total Recoverable	350	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:40	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	4.3	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:23	7439-89-6	
Manganese, Dissolved	3.0	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:23	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.064	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:42	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.062	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:22	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0066	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:41	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:41	7440-48-4	
Manganese, Total Recoverable	3.7	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:41	7439-96-5	
Molybdenum, Total Recoverable	0.12	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:41	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0058	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:07	7440-38-2	
Molybdenum, Dissolved	0.10	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:07	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	157	mg/L	20.0	1		03/22/23 10:20		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 10:20		
Alkalinity, Total as CaCO ₃	157	mg/L	20.0	1		03/22/23 10:20		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3240	mg/L	125	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-109-030823	Lab ID: 60423617007	Collected: 03/08/23 15:20	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:48	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.2	Std. Units	0.10	1		03/13/23 16:34		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:25	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	414	mg/L	100	100		03/21/23 14:59	16887-00-6	
Fluoride	16.5	mg/L	2.0	10		03/17/23 14:09	16984-48-8	
Sulfate	1560	mg/L	100	100		03/21/23 14:59	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.3	mg/L	1.0	1		03/16/23 14:00	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.8	mg/L	1.0	1		03/15/23 14:37		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-110-030723	Lab ID: 60423617008	Collected: 03/07/23 13:45	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.029	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:42	7440-39-3	
Boron, Total Recoverable	4.7	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:42	7440-42-8	
Calcium, Total Recoverable	469	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:42	7440-70-2	
Hardness, Magnesium (SM 2340B)	574	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:42		
Iron, Total Recoverable	4.8	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:42	7439-89-6	
Magnesium, Total Recoverable	139	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:42	7439-95-4	
Potassium, Total Recoverable	29.6	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:42	7440-09-7	
Sodium, Total Recoverable	366	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:42	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:25	7439-89-6	
Manganese, Dissolved	0.12	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:25	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.082	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:44	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.087	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:24	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0021	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:44	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:44	7440-48-4	
Manganese, Total Recoverable	1.4	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:44	7439-96-5	
Molybdenum, Total Recoverable	0.12	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:44	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.0010	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:09	7440-38-2	
Molybdenum, Dissolved	0.10	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:09	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	195	mg/L	20.0	1		03/16/23 13:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/16/23 13:34		
Alkalinity, Total as CaCO3	195	mg/L	20.0	1		03/16/23 13:34		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3250	mg/L	66.7	1		03/13/23 14:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-110-030723	Lab ID: 60423617008	Collected: 03/07/23 13:45	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:42	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:15	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	476	mg/L	100	100		03/21/23 16:18	16887-00-6	
Fluoride	1.7	mg/L	0.20	1		03/17/23 14:36	16984-48-8	
Sulfate	1870	mg/L	100	100		03/21/23 16:18	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.0	mg/L	1.0	1		03/16/23 14:15	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.3	mg/L	1.0	1		03/15/23 14:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-112-030723	Lab ID: 60423617009	Collected: 03/07/23 14:55	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.24	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:44	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:44	7440-42-8	
Calcium, Total Recoverable	116	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:44	7440-70-2	
Hardness, Magnesium (SM 2340B)	60.2	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:44		
Iron, Total Recoverable	7.6	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:44	7439-89-6	
Magnesium, Total Recoverable	14.6	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:44	7439-95-4	
Potassium, Total Recoverable	5.3	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:44	7440-09-7	
Sodium, Total Recoverable	13.4	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:44	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	7.3	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:27	7439-89-6	
Manganese, Dissolved	0.97	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:27	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.017	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:46	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.016	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:26	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0020	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:49	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:49	7440-48-4	
Manganese, Total Recoverable	1.1	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:49	7439-96-5	
Molybdenum, Total Recoverable	0.0098	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:49	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0018	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:15	7440-38-2	
Molybdenum, Dissolved	0.0092	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:15	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO3)	317	mg/L	20.0	1		03/16/23 13:40		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		03/16/23 13:40		
Alkalinity, Total as CaCO3	317	mg/L	20.0	1		03/16/23 13:40		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	463	mg/L	10.0	1		03/13/23 14:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-112-030723	Lab ID: 60423617009	Collected: 03/07/23 14:55	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:44	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:16	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	42.6	mg/L	10.0	10		03/17/23 15:15	16887-00-6	
Fluoride	0.30	mg/L	0.20	1		03/17/23 15:02	16984-48-8	
Sulfate	25.6	mg/L	10.0	10		03/17/23 15:15	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.2	mg/L	1.0	1		03/16/23 14:31	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	7.7	mg/L	1.0	1		03/15/23 15:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-113-030723	Lab ID: 60423617010	Collected: 03/07/23 12:35	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.046	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:47	7440-39-3	
Boron, Total Recoverable	3.9	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:47	7440-42-8	
Calcium, Total Recoverable	139	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:47	7440-70-2	
Hardness, Magnesium (SM 2340B)	215	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:47		
Iron, Total Recoverable	2.8	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:47	7439-89-6	
Magnesium, Total Recoverable	52.2	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:47	7439-95-4	
Potassium, Total Recoverable	13.2	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:47	7440-09-7	
Sodium, Total Recoverable	109	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:47	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.6	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:29	7439-89-6	
Manganese, Dissolved	0.45	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:29	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.056	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:48	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.059	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:28	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0024	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:52	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:52	7440-48-4	
Manganese, Total Recoverable	0.50	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:52	7439-96-5	
Molybdenum, Total Recoverable	0.17	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:52	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0022	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:18	7440-38-2	
Molybdenum, Dissolved	0.15	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:18	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	327	mg/L	20.0	1		03/16/23 13:58		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 13:58		
Alkalinity, Total as CaCO ₃	327	mg/L	20.0	1		03/16/23 13:58		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	971	mg/L	13.3	1		03/13/23 14:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-113-030723 Lab ID: 60423617010 Collected: 03/07/23 12:35 Received: 03/09/23 14:20 Matrix: Water								
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:42	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:16	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	78.4	mg/L	10.0	10		03/17/23 15:42	16887-00-6	
Fluoride	6.5	mg/L	0.20	1		03/17/23 15:29	16984-48-8	
Sulfate	358	mg/L	50.0	50		03/21/23 16:45	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	2.4	mg/L	1.0	1		03/16/23 14:46	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.1	mg/L	1.0	1		03/15/23 15:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-A-030824	Lab ID: 60423617011	Collected: 03/08/23 10:20	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.10	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:51	7440-39-3	
Boron, Total Recoverable	0.40	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:51	7440-42-8	
Calcium, Total Recoverable	152	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:51	7440-70-2	
Hardness, Magnesium (SM 2340B)	97.9	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:51		
Iron, Total Recoverable	8.3	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:51	7439-89-6	
Magnesium, Total Recoverable	23.8	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:51	7439-95-4	
Potassium, Total Recoverable	5.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:51	7440-09-7	
Sodium, Total Recoverable	35.0	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:51	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	4.6	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:34	7439-89-6	
Manganese, Dissolved	0.80	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:34	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.015	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:51	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.014	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:30	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0050	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:55	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:55	7440-48-4	
Manganese, Total Recoverable	0.94	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:55	7439-96-5	M1
Molybdenum, Total Recoverable	0.018	mg/L	0.0010	1	03/13/23 10:14	03/21/23 10:55	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0023	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:20	7440-38-2	
Molybdenum, Dissolved	0.016	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:20	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	380	mg/L	20.0	1		03/22/23 10:26		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 10:26		
Alkalinity, Total as CaCO ₃	380	mg/L	20.0	1		03/22/23 10:26		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	669	mg/L	10.0	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-A-030824	Lab ID: 60423617011	Collected: 03/08/23 10:20	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:46	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/13/23 15:55		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:29	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	39.4	mg/L	10.0	10		03/17/23 17:02	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/17/23 16:49	16984-48-8	
Sulfate	132	mg/L	10.0	10		03/17/23 17:02	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.6	mg/L	1.0	1		03/16/23 15:01	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.0	mg/L	1.0	1		03/15/23 15:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-B-030823	Lab ID: 60423617012	Collected: 03/08/23 09:50	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.31	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:53	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:53	7440-42-8	
Calcium, Total Recoverable	199	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:53	7440-70-2	
Hardness, Magnesium (SM 2340B)	78.4	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:53		
Iron, Total Recoverable	0.41	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:53	7439-89-6	
Magnesium, Total Recoverable	19.0	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:53	7439-95-4	
Potassium, Total Recoverable	7.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:53	7440-09-7	
Sodium, Total Recoverable	4.5	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:53	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:36	7439-89-6	
Manganese, Dissolved	0.44	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:36	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.022	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:53	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.020	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:32	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0073	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:03	7440-38-2	
Cobalt, Total Recoverable	0.030	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:03	7440-48-4	
Manganese, Total Recoverable	3.8	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:03	7439-96-5	
Molybdenum, Total Recoverable	0.014	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:03	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0052	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:28	7440-38-2	
Molybdenum, Dissolved	0.0072	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:28	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO3)	455	mg/L	20.0	1		03/22/23 10:32		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		03/22/23 10:32		
Alkalinity, Total as CaCO3	455	mg/L	20.0	1		03/22/23 10:32		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	703	mg/L	10.0	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-B-030823	Lab ID: 60423617012	Collected: 03/08/23 09:50	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:45	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/13/23 15:55		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:29	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	10.7	mg/L	1.0	1		03/17/23 17:16	16887-00-6	
Fluoride	0.35	mg/L	0.20	1		03/17/23 17:16	16984-48-8	
Sulfate	91.1	mg/L	10.0	10		03/17/23 17:29	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.4	mg/L	1.0	1		03/16/23 15:16	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.5	mg/L	1.0	1		03/15/23 15:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-D-030823	Lab ID: 60423617013	Collected: 03/08/23 15:35	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.39	mg/L	0.0050	1	03/13/23 10:14	03/20/23 16:55	7440-39-3	
Boron, Total Recoverable	0.41	mg/L	0.10	1	03/13/23 10:14	03/20/23 16:55	7440-42-8	
Calcium, Total Recoverable	329	mg/L	0.20	1	03/13/23 10:14	03/20/23 16:55	7440-70-2	
Hardness, Magnesium (SM 2340B)	225	mg/L	0.21	1	03/13/23 10:14	03/20/23 16:55		
Iron, Total Recoverable	29.2	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:55	7439-89-6	
Magnesium, Total Recoverable	54.5	mg/L	0.050	1	03/13/23 10:14	03/20/23 16:55	7439-95-4	
Potassium, Total Recoverable	7.5	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:55	7440-09-7	
Sodium, Total Recoverable	28.9	mg/L	0.50	1	03/13/23 10:14	03/20/23 16:55	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	21.7	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:38	7439-89-6	
Manganese, Dissolved	6.4	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:38	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:55	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	<0.010	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:34	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0080	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:05	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:05	7440-48-4	
Manganese, Total Recoverable	7.6	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:05	7439-96-5	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:05	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0037	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:31	7440-38-2	
Molybdenum, Dissolved	<0.0010	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:31	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	512	mg/L	20.0	1		03/22/23 10:39		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 10:39		
Alkalinity, Total as CaCO ₃	512	mg/L	20.0	1		03/22/23 10:39		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1470	mg/L	13.3	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-D-030823		Lab ID: 60423617013		Collected: 03/08/23 15:35	Received: 03/09/23 14:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:49	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/13/23 16:35		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:29	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	126	mg/L	10.0	10		03/17/23 17:56	16887-00-6	
Fluoride	0.25	mg/L	0.20	1		03/17/23 17:42	16984-48-8	
Sulfate	438	mg/L	100	100		03/21/23 16:58	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	4.2	mg/L	1.0	1		03/16/23 15:32	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	4.7	mg/L	1.0	1		03/15/23 16:09		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-N-030723	Lab ID: 60423617014	Collected: 03/07/23 11:35	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.29	mg/L	0.0050	1	03/13/23 10:14	03/20/23 17:04	7440-39-3	
Boron, Total Recoverable	0.71	mg/L	0.10	1	03/13/23 10:14	03/20/23 17:04	7440-42-8	
Calcium, Total Recoverable	111	mg/L	0.20	1	03/13/23 10:14	03/20/23 17:04	7440-70-2	
Hardness, Magnesium (SM 2340B)	185	mg/L	0.21	1	03/13/23 10:14	03/20/23 17:04		
Iron, Total Recoverable	19.7	mg/L	0.050	1	03/13/23 10:14	03/20/23 17:04	7439-89-6	
Magnesium, Total Recoverable	44.9	mg/L	0.050	1	03/13/23 10:14	03/20/23 17:04	7439-95-4	
Potassium, Total Recoverable	16.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 17:04	7440-09-7	
Sodium, Total Recoverable	30.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 17:04	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.31	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:46	7439-89-6	
Manganese, Dissolved	0.36	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:46	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.045	mg/L	0.010	1	03/13/23 10:14	03/20/23 17:57	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.046	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:36	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.089	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:08	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:08	7440-48-4	
Manganese, Total Recoverable	0.67	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:08	7439-96-5	
Molybdenum, Total Recoverable	0.032	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:08	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0053	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:34	7440-38-2	
Molybdenum, Dissolved	0.032	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:34	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO3)	414	mg/L	20.0	1		03/16/23 14:04		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		03/16/23 14:04		
Alkalinity, Total as CaCO3	414	mg/L	20.0	1		03/16/23 14:04		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	587	mg/L	10.0	1		03/13/23 14:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-N-030723	Lab ID: 60423617014	Collected: 03/07/23 11:35	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:41	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.7	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:16	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	36.6	mg/L	10.0	10		03/17/23 18:22	16887-00-6	
Fluoride	3.2	mg/L	0.20	1		03/17/23 18:09	16984-48-8	
Sulfate	82.5	mg/L	10.0	10		03/17/23 18:22	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.6	mg/L	1.0	1		03/16/23 15:47	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.0	mg/L	1.0	1		03/15/23 16:24		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-O-030723	Lab ID: 60423617015	Collected: 03/07/23 13:50	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.055	mg/L	0.0050	1	03/13/23 10:14	03/20/23 17:06	7440-39-3	
Boron, Total Recoverable	2.7	mg/L	0.10	1	03/13/23 10:14	03/20/23 17:06	7440-42-8	
Calcium, Total Recoverable	458	mg/L	0.20	1	03/13/23 10:14	03/20/23 17:06	7440-70-2	
Hardness, Magnesium (SM 2340B)	576	mg/L	0.21	1	03/13/23 10:14	03/20/23 17:06		
Iron, Total Recoverable	9.1	mg/L	0.050	1	03/13/23 10:14	03/20/23 17:06	7439-89-6	
Magnesium, Total Recoverable	140	mg/L	0.050	1	03/13/23 10:14	03/20/23 17:06	7439-95-4	
Potassium, Total Recoverable	24.8	mg/L	0.50	1	03/13/23 10:14	03/20/23 17:06	7440-09-7	
Sodium, Total Recoverable	372	mg/L	0.50	1	03/13/23 10:14	03/20/23 17:06	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	9.4	mg/L	0.050	1	03/13/23 11:02	03/21/23 11:48	7439-89-6	
Manganese, Dissolved	2.2	mg/L	0.0050	1	03/13/23 11:02	03/21/23 11:48	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.077	mg/L	0.010	1	03/13/23 10:14	03/20/23 18:06	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.093	mg/L	0.010	1	03/13/23 11:02	03/21/23 12:45	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.020	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:11	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:11	7440-48-4	
Manganese, Total Recoverable	2.5	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:11	7439-96-5	
Molybdenum, Total Recoverable	0.070	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:11	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.016	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:36	7440-38-2	
Molybdenum, Dissolved	0.060	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:36	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	249	mg/L	20.0	1		03/16/23 14:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/16/23 14:11		
Alkalinity, Total as CaCO3	249	mg/L	20.0	1		03/16/23 14:11		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	2690	mg/L	143	1		03/13/23 14:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-O-030723		Lab ID: 60423617015		Collected: 03/07/23 13:50	Received: 03/09/23 14:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:43	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.4	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:17	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	496	mg/L	100	100		03/21/23 17:11	16887-00-6	
Fluoride	1.9	mg/L	0.20	1		03/17/23 18:36	16984-48-8	
Sulfate	1700	mg/L	100	100		03/21/23 17:11	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	3.4	mg/L	1.0	1		03/16/23 16:02	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	4.6	mg/L	1.0	1		03/15/23 16:39		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-P-030823	Lab ID: 60423617016	Collected: 03/08/23 12:55	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.075	mg/L	0.0050	1	03/13/23 10:14	03/20/23 18:40	7440-39-3	
Boron, Total Recoverable	0.93	mg/L	0.10	1	03/13/23 10:14	03/20/23 18:40	7440-42-8	
Calcium, Total Recoverable	205	mg/L	0.20	1	03/13/23 10:14	03/20/23 18:40	7440-70-2	M1
Hardness, Magnesium (SM 2340B)	170	mg/L	0.21	1	03/13/23 10:14	03/20/23 18:40		
Iron, Total Recoverable	1.7	mg/L	0.050	1	03/13/23 10:14	03/20/23 18:40	7439-89-6	
Magnesium, Total Recoverable	41.2	mg/L	0.050	1	03/13/23 10:14	03/20/23 18:40	7439-95-4	
Potassium, Total Recoverable	14.2	mg/L	0.50	1	03/13/23 10:14	03/20/23 18:40	7440-09-7	
Sodium, Total Recoverable	43.9	mg/L	0.50	1	03/13/23 10:14	03/20/23 18:40	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/13/23 11:02	03/21/23 12:57	7439-89-6	
Manganese, Dissolved	1.0	mg/L	0.0050	1	03/13/23 11:02	03/21/23 12:57	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.031	mg/L	0.010	1	03/13/23 10:14	03/20/23 18:18	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.031	mg/L	0.010	1	03/13/23 11:02	03/21/23 13:19	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0048	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:21	7440-38-2	
Cobalt, Total Recoverable	0.0036	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:21	7440-48-4	
Manganese, Total Recoverable	2.8	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:21	7439-96-5	
Molybdenum, Total Recoverable	0.033	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:21	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0018	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:47	7440-38-2	
Molybdenum, Dissolved	0.028	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:47	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	432	mg/L	20.0	1		03/22/23 10:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/22/23 10:46		
Alkalinity, Total as CaCO3	432	mg/L	20.0	1		03/22/23 10:46		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	928	mg/L	13.3	1		03/13/23 14:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: MW-P-030823	Lab ID: 60423617016	Collected: 03/08/23 12:55	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:48	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/13/23 16:21		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:29	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	46.6	mg/L	10.0	10		03/17/23 20:09	16887-00-6	
Fluoride	1.5	mg/L	0.20	1		03/17/23 19:56	16984-48-8	
Sulfate	244	mg/L	50.0	50		03/21/23 17:51	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.0	mg/L	1.0	1		03/16/23 16:18	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.6	mg/L	1.0	1		03/15/23 17:25		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: DUP 01-LEC PAW-030723	Lab ID: 60423617017	Collected: 03/07/23 08:00	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.20	mg/L	0.0050	1	03/13/23 10:14	03/20/23 18:46	7440-39-3	
Boron, Total Recoverable	0.72	mg/L	0.10	1	03/13/23 10:14	03/20/23 18:46	7440-42-8	
Calcium, Total Recoverable	111	mg/L	0.20	1	03/13/23 10:14	03/20/23 18:46	7440-70-2	
Hardness, Magnesium (SM 2340B)	187	mg/L	0.21	1	03/13/23 10:14	03/20/23 18:46		
Iron, Total Recoverable	9.4	mg/L	0.050	1	03/13/23 10:14	03/20/23 18:46	7439-89-6	
Magnesium, Total Recoverable	45.4	mg/L	0.050	1	03/13/23 10:14	03/20/23 18:46	7439-95-4	
Potassium, Total Recoverable	16.7	mg/L	0.50	1	03/13/23 10:14	03/20/23 18:46	7440-09-7	
Sodium, Total Recoverable	31.4	mg/L	0.50	1	03/13/23 10:14	03/20/23 18:46	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.30	mg/L	0.050	1	03/13/23 11:02	03/21/23 13:03	7439-89-6	
Manganese, Dissolved	0.38	mg/L	0.0050	1	03/13/23 11:02	03/21/23 13:03	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.046	mg/L	0.010	1	03/13/23 10:14	03/20/23 18:25	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.044	mg/L	0.010	1	03/13/23 11:02	03/21/23 13:25	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.042	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:24	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:24	7440-48-4	
Manganese, Total Recoverable	0.44	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:24	7439-96-5	
Molybdenum, Total Recoverable	0.033	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:24	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0051	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:50	7440-38-2	
Molybdenum, Dissolved	0.030	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:50	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	418	mg/L	20.0	1		03/16/23 14:17		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 14:17		
Alkalinity, Total as CaCO ₃	418	mg/L	20.0	1		03/16/23 14:17		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	656	mg/L	20.0	1		03/13/23 14:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DUP 01-LEC PAW-030723 Lab ID: 60423617017 Collected: 03/07/23 08:00 Received: 03/09/23 14:20 Matrix: Water								
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:41	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:17	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	36.3	mg/L	10.0	10		03/17/23 20:36	16887-00-6	
Fluoride	3.2	mg/L	0.20	1		03/17/23 20:23	16984-48-8	
Sulfate	82.3	mg/L	10.0	10		03/17/23 20:36	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	2.1	mg/L	1.0	1		03/16/23 17:03	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.3	mg/L	1.0	1		03/15/23 17:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Sample: DUP 02-LEC PAW-030723	Lab ID: 60423617018	Collected: 03/07/23 08:00	Received: 03/09/23 14:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.14	mg/L	0.0050	1	03/13/23 10:14	03/20/23 18:48	7440-39-3	
Boron, Total Recoverable	0.13	mg/L	0.10	1	03/13/23 10:14	03/20/23 18:48	7440-42-8	
Calcium, Total Recoverable	111	mg/L	0.20	1	03/13/23 10:14	03/20/23 18:48	7440-70-2	
Hardness, Magnesium (SM 2340B)	126	mg/L	0.21	1	03/13/23 10:14	03/20/23 18:48		
Iron, Total Recoverable	1.5	mg/L	0.050	1	03/13/23 10:14	03/20/23 18:48	7439-89-6	
Magnesium, Total Recoverable	30.5	mg/L	0.050	1	03/13/23 10:14	03/20/23 18:48	7439-95-4	
Potassium, Total Recoverable	8.3	mg/L	0.50	1	03/13/23 10:14	03/20/23 18:48	7440-09-7	
Sodium, Total Recoverable	11.2	mg/L	0.50	1	03/13/23 10:14	03/20/23 18:48	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/13/23 11:02	03/21/23 13:05	7439-89-6	
Manganese, Dissolved	0.14	mg/L	0.0050	1	03/13/23 11:02	03/21/23 13:05	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.025	mg/L	0.010	1	03/13/23 10:14	03/20/23 18:27	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.023	mg/L	0.010	1	03/13/23 11:02	03/21/23 13:27	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0085	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:32	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:32	7440-48-4	
Manganese, Total Recoverable	0.39	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:32	7439-96-5	
Molybdenum, Total Recoverable	0.024	mg/L	0.0010	1	03/13/23 10:14	03/21/23 11:32	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0023	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:58	7440-38-2	
Molybdenum, Dissolved	0.021	mg/L	0.0010	1	03/13/23 11:02	03/21/23 12:58	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	379	mg/L	20.0	1		03/16/23 14:24		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 14:24		
Alkalinity, Total as CaCO ₃	379	mg/L	20.0	1		03/16/23 14:24		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	456	mg/L	5.0	1		03/13/23 14:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DUP 02-LEC PAW-030723 Lab ID: 60423617018 Collected: 03/07/23 08:00 Received: 03/09/23 14:20 Matrix: Water								
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:41	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.5	Std. Units	0.10	1		03/13/23 15:54		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:17	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City								
Chloride	11.6	mg/L	1.0	1		03/17/23 20:49	16887-00-6	
Fluoride	1.4	mg/L	0.20	1		03/17/23 20:49	16984-48-8	
Sulfate	49.2	mg/L	10.0	10		03/17/23 21:03	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Total Organic Carbon	1.2	mg/L	1.0	1		03/16/23 17:19	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.5	mg/L	1.0	1		03/15/23 17:56		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report
Pace Project No.: 60423617

QC Batch: 835951 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015

METHOD BLANK: 3315874 Matrix: Water
Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/20/23 16:13	
Boron	mg/L	<0.10	0.10	03/20/23 16:13	
Calcium	mg/L	<0.20	0.20	03/20/23 16:13	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	03/20/23 16:13	
Iron	mg/L	<0.050	0.050	03/20/23 16:13	
Magnesium	mg/L	<0.050	0.050	03/20/23 16:13	
Potassium	mg/L	<0.50	0.50	03/20/23 16:13	
Sodium	mg/L	<0.50	0.50	03/20/23 16:13	

LABORATORY CONTROL SAMPLE: 3315875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.97	97	85-115	
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	40.4	98	85-115	
Iron	mg/L	10	9.8	98	85-115	
Magnesium	mg/L	10	9.8	98	85-115	
Potassium	mg/L	10	9.9	99	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315876 3315877

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423617001 Result	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.14	1	1	1.1	1.1	97	98	70-130	1	20
Boron	mg/L	0.32	1	1	1.2	1.3	92	94	70-130	2	20
Calcium	mg/L	97.0	10	10	105	110	76	128	70-130	5	20
Hardness, Magnesium (SM 2340B)	mg/L	91.9	41.2	41.2	129	134	90	102	70-130	4	20
Iron	mg/L	0.87	10	10	10.7	10.8	99	99	70-130	0	20
Magnesium	mg/L	22.3	10	10	31.3	32.5	90	102	70-130	4	20
Potassium	mg/L	6.2	10	10	16.1	16.5	99	103	70-130	3	20
Sodium	mg/L	18.9	10	10	28.1	29.2	92	104	70-130	4	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

MATRIX SPIKE SAMPLE:		3315879					
Parameter	Units	60423617002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.12	1	1.0	89	70-130	
Boron	mg/L	0.42	1	4.8	441	70-130	M1
Calcium	mg/L	117	10	148	311	70-130	M1
Hardness, Magnesium (SM 2340B)	mg/L	134	41.2	253	290	70-130	
Iron	mg/L	1.1	10	12.5	114	70-130	
Magnesium	mg/L	32.5	10	61.5	290	70-130	M1
Potassium	mg/L	8.7	10	22.9	142	70-130	M1
Sodium	mg/L	10.7	10	119	1080	70-130	M1

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835954	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617016, 60423617017, 60423617018

METHOD BLANK: 3315890 Matrix: Water

Associated Lab Samples: 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/20/23 18:36	
Boron	mg/L	<0.10	0.10	03/20/23 18:36	
Calcium	mg/L	<0.20	0.20	03/20/23 18:36	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	03/20/23 18:36	
Iron	mg/L	<0.050	0.050	03/20/23 18:36	
Magnesium	mg/L	<0.050	0.050	03/20/23 18:36	
Potassium	mg/L	<0.50	0.50	03/20/23 18:36	
Sodium	mg/L	<0.50	0.50	03/20/23 18:36	

LABORATORY CONTROL SAMPLE: 3315891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.99	99	85-115	
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	9.9	99	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	40.3	98	85-115	
Iron	mg/L	10	9.8	98	85-115	
Magnesium	mg/L	10	9.8	98	85-115	
Potassium	mg/L	10	10.1	101	85-115	
Sodium	mg/L	10	10.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315892 3315893

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423617016 Result	Spike Conc.	Spike Conc.	Result						
Barium	mg/L	0.075	1	1	1.1	1.0	98	97	70-130	1	20
Boron	mg/L	0.93	1	1	1.8	1.8	90	89	70-130	1	20
Calcium	mg/L	205	10	10	206	206	6	5	70-130	0	20 M1
Hardness, Magnesium (SM 2340B)	mg/L	170	41.2	41.2	201	202	77	79	70-130	0	20
Iron	mg/L	1.7	10	10	11.4	11.3	97	96	70-130	1	20
Magnesium	mg/L	41.2	10	10	48.9	49.1	77	79	70-130	0	20
Potassium	mg/L	14.2	10	10	23.7	23.5	95	94	70-130	1	20
Sodium	mg/L	43.9	10	10	52.1	51.9	82	80	70-130	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835940	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

METHOD BLANK:	3315833	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	03/21/23 10:57	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/21/23 10:57	

LABORATORY CONTROL SAMPLE:	3315834					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	10.4	104	85-115	
Manganese, Dissolved	mg/L	1	1.0	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3315835			3315836								
Parameter	Units	60423617001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	mg/L	0.48	10	10	10.7	10.8	102	103	70-130	1	20	
Manganese, Dissolved	mg/L	0.18	1	1	1.2	1.2	102	104	70-130	2	20	

MATRIX SPIKE SAMPLE:	3315837										
Parameter	Units	60423617002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Iron, Dissolved	mg/L	0.90	10	12.3	114	70-130					
Manganese, Dissolved	mg/L	0.41	1	1.4	99	70-130					

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835943	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617016, 60423617017, 60423617018

METHOD BLANK: 3315851 Matrix: Water

Associated Lab Samples: 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	03/21/23 12:53	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/21/23 12:53	

LABORATORY CONTROL SAMPLE: 3315852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	10.4	104	85-115	
Manganese, Dissolved	mg/L	1	1.1	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315853 3315854

Parameter	Units	60423617016		3315853		3315854		% Rec Limits	RPD	Max RPD	Qual	
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					MSD % Rec
Iron, Dissolved	mg/L	<0.050	10	10	10.5	10.9	105	109	70-130	3	20	
Manganese, Dissolved	mg/L	1.0	1	1	2.0	2.1	101	107	70-130	3	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835952	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:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

METHOD BLANK:	3315881	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/21/23 10:12	
Cobalt	mg/L	<0.0010	0.0010	03/21/23 10:12	
Manganese	mg/L	<0.0010	0.0010	03/21/23 10:12	
Molybdenum	mg/L	<0.0010	0.0010	03/21/23 10:12	

LABORATORY CONTROL SAMPLE: 3315882						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	97	85-115	
Cobalt	mg/L	0.04	0.040	101	85-115	
Manganese	mg/L	0.04	0.041	102	85-115	
Molybdenum	mg/L	0.04	0.041	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315883												3315884	
Parameter	Units	60423617002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Arsenic	mg/L	0.011	0.04	0.04	0.051	0.049	99	96	70-130	3	20		
Cobalt	mg/L	<0.0010	0.04	0.04	0.038	0.038	94	94	70-130	0	20		
Manganese	mg/L	0.34	0.04	0.04	0.38	0.37	95	81	70-130	2	20		
Molybdenum	mg/L	0.041	0.04	0.04	0.083	0.081	104	100	70-130	2	20		

MATRIX SPIKE SAMPLE: 3315885								
Parameter	Units	60423617011		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L			0.0050	0.04	0.043	95	70-130
Cobalt	mg/L			<0.0010	0.04	0.038	93	70-130
Manganese	mg/L			0.94	0.04	0.93	-16	70-130 M1
Molybdenum	mg/L			0.018	0.04	0.057	98	70-130

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835955	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: 60423617016, 60423617017, 60423617018

METHOD BLANK: 3315894 Matrix: Water

Associated Lab Samples: 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/21/23 11:16	
Cobalt	mg/L	<0.0010	0.0010	03/21/23 11:16	
Manganese	mg/L	<0.0010	0.0010	03/21/23 11:16	
Molybdenum	mg/L	<0.0010	0.0010	03/21/23 11:16	

LABORATORY CONTROL SAMPLE: 3315895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.038	95	85-115	
Cobalt	mg/L	0.04	0.037	94	85-115	
Manganese	mg/L	0.04	0.039	98	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315896 3315897

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423617017 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/L	0.042	0.04	0.04	0.079	0.080	92	95	70-130	1	20
Cobalt	mg/L	<0.0010	0.04	0.04	0.037	0.037	93	92	70-130	1	20
Manganese	mg/L	0.44	0.04	0.04	0.46	0.47	72	83	70-130	1	20
Molybdenum	mg/L	0.033	0.04	0.04	0.073	0.074	99	103	70-130	2	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835942	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

METHOD BLANK:	3315845	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/23 11:37	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	03/21/23 11:37	

LABORATORY CONTROL SAMPLE:	3315846					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.038	95	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.040	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3315847			3315848								
Parameter	Units	60423617002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	mg/L	0.0060	0.04	0.04	0.043	0.044	93	95	70-130	2	20	
Molybdenum, Dissolved	mg/L	0.036	0.04	0.04	0.074	0.076	96	98	70-130	1	20	

MATRIX SPIKE SAMPLE:	3315849										
Parameter	Units	60423617011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers				
Arsenic, Dissolved	mg/L	0.0023	0.04	0.041	96	70-130					
Molybdenum, Dissolved	mg/L	0.016	0.04	0.057	103	70-130					

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835946	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617016, 60423617017, 60423617018

METHOD BLANK: 3315859 Matrix: Water

Associated Lab Samples: 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/23 12:42	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	03/21/23 12:42	

LABORATORY CONTROL SAMPLE: 3315860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.037	93	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.039	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315861 3315862

Parameter	Units	60423617017		3315862		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic, Dissolved	mg/L	0.0051	0.04	0.04	0.042	93	94	70-130	1	20	
Molybdenum, Dissolved	mg/L	0.030	0.04	0.04	0.070	100	101	70-130	0	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835949	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

METHOD BLANK:	3315864	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/20/23 17:14	

LABORATORY CONTROL SAMPLE:	3315866					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3315867			3315868								
Parameter	Units	60423617001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.020	1	1	1.0	1.0	98	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835941	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015

METHOD BLANK: 3315840 Matrix: Water

Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/21/23 11:56	

LABORATORY CONTROL SAMPLE: 3315841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315842 3315843

Parameter	Units	60423617001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	0.021	1	1	1.0	1.0	101	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	835944	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617016, 60423617017, 60423617018		

METHOD BLANK: 3315855 Matrix: Water

Associated Lab Samples: 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/21/23 13:15	

LABORATORY CONTROL SAMPLE: 3315856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3315857 3315858

Parameter	Units	3315857		3315858		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lithium, Dissolved	mg/L	0.031	1	1	1.1	1.1	106	107	75-125	2	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836948	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617008, 60423617009, 60423617010, 60423617014, 60423617015, 60423617017, 60423617018		

METHOD BLANK:	3319253	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617008, 60423617009, 60423617010, 60423617014, 60423617015, 60423617017, 60423617018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	03/16/23 13:11	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/16/23 13:11	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/16/23 13:11	

LABORATORY CONTROL SAMPLE: 3319254						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	478	96	90-110	

SAMPLE DUPLICATE: 3319255						
Parameter	Units	60423617001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	296	295	0	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	296	295	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3319256						
Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	187	188	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	187	188	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	4.6U	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	837865	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617006, 60423617007, 60423617011, 60423617012, 60423617013, 60423617016

METHOD BLANK: 3322151 Matrix: Water

Associated Lab Samples: 60423617006, 60423617007, 60423617011, 60423617012, 60423617013, 60423617016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	03/22/23 09:57	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	03/22/23 09:57	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	20.0	03/22/23 09:57	

LABORATORY CONTROL SAMPLE: 3322152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	500	481	96	90-110	

SAMPLE DUPLICATE: 3322153

Parameter	Units	60423617006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	284	282	0	10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	284	282	0	10	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3322154

Parameter	Units	60423623004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	697	702	1	10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	697	702	1	10	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836216	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617001, 60423617008, 60423617009, 60423617010, 60423617014, 60423617015, 60423617017, 60423617018

METHOD BLANK: 3317035 Matrix: Water

Associated Lab Samples: 60423617001, 60423617008, 60423617009, 60423617010, 60423617014, 60423617015, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/13/23 14:50	

LABORATORY CONTROL SAMPLE: 3317036

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

SAMPLE DUPLICATE: 3317037

Parameter	Units	60423377001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	130	1	10	

SAMPLE DUPLICATE: 3317038

Parameter	Units	60423617009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	463	445	4	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836217	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617011, 60423617012, 60423617013, 60423617016

METHOD BLANK: 3317039 Matrix: Water

Associated Lab Samples: 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617011, 60423617012, 60423617013, 60423617016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/13/23 14:54	

LABORATORY CONTROL SAMPLE: 3317040

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

SAMPLE DUPLICATE: 3317041

Parameter	Units	60423611002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	544	552	1	10	

SAMPLE DUPLICATE: 3317042

Parameter	Units	60423617007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3240	3540	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836684	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018

METHOD BLANK: 3318159 Matrix: Water

Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/15/23 13:40	H6

LABORATORY CONTROL SAMPLE: 3318160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	103	90-110	H6

SAMPLE DUPLICATE: 3318161

Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.060U	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch: 836685	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617013

METHOD BLANK: 3318162 Matrix: Water

Associated Lab Samples: 60423617013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/15/23 13:48	H6

LABORATORY CONTROL SAMPLE: 3318163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	103	90-110	H6

SAMPLE DUPLICATE: 3318164

Parameter	Units	60423617013 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836208	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617001, 60423617002, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617014, 60423617015, 60423617017, 60423617018

SAMPLE DUPLICATE: 3317014

Parameter	Units	60423617017 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.8	2	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch: 836223 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617013, 60423617016

SAMPLE DUPLICATE: 3317062

Parameter	Units	60423617006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	2	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836470	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617001, 60423617002, 60423617008, 60423617009, 60423617010, 60423617014, 60423617015, 60423617017, 60423617018		

METHOD BLANK:	3317600	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617008, 60423617009, 60423617010, 60423617014, 60423617015, 60423617017, 60423617018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/14/23 13:12	

LABORATORY CONTROL SAMPLE: 3317601						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317603													3317604		
Parameter	Units	60423484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Sulfide, Total	mg/L	0.64	0.5	0.5	0.94	0.94	59	59	75-125	0	20	M1			

SAMPLE DUPLICATE: 3317602						
Parameter	Units	60423617014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 3317605						
Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.64	0.64	0	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch: 836678 Analysis Method: SM 4500-S-2 D
 QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617011, 60423617012, 60423617013, 60423617016

METHOD BLANK: 3318131 Matrix: Water
 Associated Lab Samples: 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617011, 60423617012, 60423617013, 60423617016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/15/23 15:24	

LABORATORY CONTROL SAMPLE: 3318132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3318133 3318134

Parameter	Units	60423617003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.26	0.26	51	51	75-125	0	20	M1

SAMPLE DUPLICATE: 3318135

Parameter	Units	60423617004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 3318136

Parameter	Units	60423819001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch: 836868 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004

METHOD BLANK: 3318984 Matrix: Water
 Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/16/23 10:29	
Fluoride	mg/L	<0.20	0.20	03/16/23 10:29	
Sulfate	mg/L	<1.0	1.0	03/16/23 10:29	

METHOD BLANK: 3322671 Matrix: Water
 Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/23 12:58	
Fluoride	mg/L	<0.20	0.20	03/21/23 12:58	
Sulfate	mg/L	<1.0	1.0	03/21/23 12:58	

METHOD BLANK: 3322772 Matrix: Water
 Associated Lab Samples: 60423617001, 60423617002, 60423617003, 60423617004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/20/23 12:12	
Fluoride	mg/L	<0.20	0.20	03/20/23 12:12	
Sulfate	mg/L	<1.0	1.0	03/20/23 12:12	

LABORATORY CONTROL SAMPLE: 3318985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 3322672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

LABORATORY CONTROL SAMPLE: 3322773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	5	5.2	105	90-110	

MATRIX SPIKE SAMPLE: 3318986

Parameter	Units	60423929001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	284	1000	1250	96	80-120	
Fluoride	mg/L	ND	500	580	116	80-120	
Sulfate	mg/L	1930	1000	3060	114	80-120	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report
Pace Project No.: 60423617

QC Batch: 836869 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018

METHOD BLANK: 3318988 Matrix: Water
Associated Lab Samples: 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/17/23 10:59	
Fluoride	mg/L	<0.20	0.20	03/17/23 10:59	
Sulfate	mg/L	<1.0	1.0	03/17/23 10:59	

METHOD BLANK: 3322659 Matrix: Water
Associated Lab Samples: 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/23 12:58	
Fluoride	mg/L	<0.20	0.20	03/21/23 12:58	
Sulfate	mg/L	<1.0	1.0	03/21/23 12:58	

LABORATORY CONTROL SAMPLE: 3318989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	97	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

LABORATORY CONTROL SAMPLE: 3322660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3318990 3318991

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result								
Chloride	mg/L	8.5	5	5	14.6	14.4	122	117	80-120	2	15	M1	
Fluoride	mg/L	1.2	2.5	2.5	4.0	3.8	110	104	80-120	4	15		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3318990 3318991												
Parameter	Units	60423617005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual
			Spike Conc.	Spike Conc.							RPD	
Sulfate	mg/L	56.4	50	50	112	103	111	94	80-120	8	15	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch: 836949

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423617001

METHOD BLANK: 3319258

Matrix: Water

Associated Lab Samples: 60423617001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	03/16/23 10:51	

LABORATORY CONTROL SAMPLE: 3319259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3319261 3319262

Parameter	Units	60423484001		3319261		3319262		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Organic Carbon	mg/L	12.9	5	5	17.8	17.7	100	96	80-120	1	25

SAMPLE DUPLICATE: 3319260

Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	12.9	13.1	2	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836950	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018		

METHOD BLANK:	3319264	Matrix:	Water
Associated Lab Samples:	60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	03/16/23 10:57	

LABORATORY CONTROL SAMPLE:	3319265					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	99	80-120	

MATRIX SPIKE SAMPLE:	3319266						
Parameter	Units	60423617002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.4	5	6.2	96	80-120	

SAMPLE DUPLICATE:	3319267					
Parameter	Units	60423617004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.6	2.6	0	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

QC Batch:	836186	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018		

METHOD BLANK:	3316979	Matrix:	Water
Associated Lab Samples:	60423617001, 60423617002, 60423617003, 60423617004, 60423617005, 60423617006, 60423617007, 60423617008, 60423617009, 60423617010, 60423617011, 60423617012, 60423617013, 60423617014, 60423617015, 60423617016, 60423617017, 60423617018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/15/23 11:19	

LABORATORY CONTROL SAMPLE:	3316980					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.9	98	80-120	

MATRIX SPIKE SAMPLE:	3316981						
Parameter	Units	60423617001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.6	5	7.1	91	80-120	

SAMPLE DUPLICATE:	3316982					
Parameter	Units	60423617003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	5.6	5.8	3	25	

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QUALIFIERS

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423617001	MW-101-030723	EPA 200.7	835951	EPA 200.7	836296
60423617002	MW-102-030823	EPA 200.7	835951	EPA 200.7	836296
60423617003	MW-103-030823	EPA 200.7	835951	EPA 200.7	836296
60423617004	MW-104-030823	EPA 200.7	835951	EPA 200.7	836296
60423617005	MW-107-030723	EPA 200.7	835951	EPA 200.7	836296
60423617006	MW-108-030723	EPA 200.7	835951	EPA 200.7	836296
60423617007	MW-109-030823	EPA 200.7	835951	EPA 200.7	836296
60423617008	MW-110-030723	EPA 200.7	835951	EPA 200.7	836296
60423617009	MW-112-030723	EPA 200.7	835951	EPA 200.7	836296
60423617010	MW-113-030723	EPA 200.7	835951	EPA 200.7	836296
60423617011	MW-A-030824	EPA 200.7	835951	EPA 200.7	836296
60423617012	MW-B-030823	EPA 200.7	835951	EPA 200.7	836296
60423617013	MW-D-030823	EPA 200.7	835951	EPA 200.7	836296
60423617014	MW-N-030723	EPA 200.7	835951	EPA 200.7	836296
60423617015	MW-O-030723	EPA 200.7	835951	EPA 200.7	836296
60423617016	MW-P-030823	EPA 200.7	835954	EPA 200.7	836299
60423617017	DUP 01-LEC PAW-030723	EPA 200.7	835954	EPA 200.7	836299
60423617018	DUP 02-LEC PAW-030723	EPA 200.7	835954	EPA 200.7	836299
60423617001	MW-101-030723	EPA 200.7	835940	EPA 200.7	836302
60423617002	MW-102-030823	EPA 200.7	835940	EPA 200.7	836302
60423617003	MW-103-030823	EPA 200.7	835940	EPA 200.7	836302
60423617004	MW-104-030823	EPA 200.7	835940	EPA 200.7	836302
60423617005	MW-107-030723	EPA 200.7	835940	EPA 200.7	836302
60423617006	MW-108-030723	EPA 200.7	835940	EPA 200.7	836302
60423617007	MW-109-030823	EPA 200.7	835940	EPA 200.7	836302
60423617008	MW-110-030723	EPA 200.7	835940	EPA 200.7	836302
60423617009	MW-112-030723	EPA 200.7	835940	EPA 200.7	836302
60423617010	MW-113-030723	EPA 200.7	835940	EPA 200.7	836302
60423617011	MW-A-030824	EPA 200.7	835940	EPA 200.7	836302
60423617012	MW-B-030823	EPA 200.7	835940	EPA 200.7	836302
60423617013	MW-D-030823	EPA 200.7	835940	EPA 200.7	836302
60423617014	MW-N-030723	EPA 200.7	835940	EPA 200.7	836302
60423617015	MW-O-030723	EPA 200.7	835940	EPA 200.7	836302
60423617016	MW-P-030823	EPA 200.7	835943	EPA 200.7	836309
60423617017	DUP 01-LEC PAW-030723	EPA 200.7	835943	EPA 200.7	836309
60423617018	DUP 02-LEC PAW-030723	EPA 200.7	835943	EPA 200.7	836309
60423617001	MW-101-030723	EPA 3010	835949	EPA 6010	836295
60423617002	MW-102-030823	EPA 3010	835949	EPA 6010	836295
60423617003	MW-103-030823	EPA 3010	835949	EPA 6010	836295
60423617004	MW-104-030823	EPA 3010	835949	EPA 6010	836295
60423617005	MW-107-030723	EPA 3010	835949	EPA 6010	836295
60423617006	MW-108-030723	EPA 3010	835949	EPA 6010	836295
60423617007	MW-109-030823	EPA 3010	835949	EPA 6010	836295
60423617008	MW-110-030723	EPA 3010	835949	EPA 6010	836295
60423617009	MW-112-030723	EPA 3010	835949	EPA 6010	836295
60423617010	MW-113-030723	EPA 3010	835949	EPA 6010	836295
60423617011	MW-A-030824	EPA 3010	835949	EPA 6010	836295

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423617012	MW-B-030823	EPA 3010	835949	EPA 6010	836295
60423617013	MW-D-030823	EPA 3010	835949	EPA 6010	836295
60423617014	MW-N-030723	EPA 3010	835949	EPA 6010	836295
60423617015	MW-O-030723	EPA 3010	835949	EPA 6010	836295
60423617016	MW-P-030823	EPA 3010	835953	EPA 6010	836298
60423617017	DUP 01-LEC PAW-030723	EPA 3010	835953	EPA 6010	836298
60423617018	DUP 02-LEC PAW-030723	EPA 3010	835953	EPA 6010	836298
60423617001	MW-101-030723	EPA 3010	835941	EPA 6010	836304
60423617002	MW-102-030823	EPA 3010	835941	EPA 6010	836304
60423617003	MW-103-030823	EPA 3010	835941	EPA 6010	836304
60423617004	MW-104-030823	EPA 3010	835941	EPA 6010	836304
60423617005	MW-107-030723	EPA 3010	835941	EPA 6010	836304
60423617006	MW-108-030723	EPA 3010	835941	EPA 6010	836304
60423617007	MW-109-030823	EPA 3010	835941	EPA 6010	836304
60423617008	MW-110-030723	EPA 3010	835941	EPA 6010	836304
60423617009	MW-112-030723	EPA 3010	835941	EPA 6010	836304
60423617010	MW-113-030723	EPA 3010	835941	EPA 6010	836304
60423617011	MW-A-030824	EPA 3010	835941	EPA 6010	836304
60423617012	MW-B-030823	EPA 3010	835941	EPA 6010	836304
60423617013	MW-D-030823	EPA 3010	835941	EPA 6010	836304
60423617014	MW-N-030723	EPA 3010	835941	EPA 6010	836304
60423617015	MW-O-030723	EPA 3010	835941	EPA 6010	836304
60423617016	MW-P-030823	EPA 3010	835944	EPA 6010	836311
60423617017	DUP 01-LEC PAW-030723	EPA 3010	835944	EPA 6010	836311
60423617018	DUP 02-LEC PAW-030723	EPA 3010	835944	EPA 6010	836311
60423617001	MW-101-030723	EPA 200.8	835952	EPA 200.8	836297
60423617002	MW-102-030823	EPA 200.8	835952	EPA 200.8	836297
60423617003	MW-103-030823	EPA 200.8	835952	EPA 200.8	836297
60423617004	MW-104-030823	EPA 200.8	835952	EPA 200.8	836297
60423617005	MW-107-030723	EPA 200.8	835952	EPA 200.8	836297
60423617006	MW-108-030723	EPA 200.8	835952	EPA 200.8	836297
60423617007	MW-109-030823	EPA 200.8	835952	EPA 200.8	836297
60423617008	MW-110-030723	EPA 200.8	835952	EPA 200.8	836297
60423617009	MW-112-030723	EPA 200.8	835952	EPA 200.8	836297
60423617010	MW-113-030723	EPA 200.8	835952	EPA 200.8	836297
60423617011	MW-A-030824	EPA 200.8	835952	EPA 200.8	836297
60423617012	MW-B-030823	EPA 200.8	835952	EPA 200.8	836297
60423617013	MW-D-030823	EPA 200.8	835952	EPA 200.8	836297
60423617014	MW-N-030723	EPA 200.8	835952	EPA 200.8	836297
60423617015	MW-O-030723	EPA 200.8	835952	EPA 200.8	836297
60423617016	MW-P-030823	EPA 200.8	835955	EPA 200.8	836300
60423617017	DUP 01-LEC PAW-030723	EPA 200.8	835955	EPA 200.8	836300
60423617018	DUP 02-LEC PAW-030723	EPA 200.8	835955	EPA 200.8	836300
60423617001	MW-101-030723	EPA 200.8	835942	EPA 200.8	836306
60423617002	MW-102-030823	EPA 200.8	835942	EPA 200.8	836306
60423617003	MW-103-030823	EPA 200.8	835942	EPA 200.8	836306

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Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423617004	MW-104-030823	EPA 200.8	835942	EPA 200.8	836306
60423617005	MW-107-030723	EPA 200.8	835942	EPA 200.8	836306
60423617006	MW-108-030723	EPA 200.8	835942	EPA 200.8	836306
60423617007	MW-109-030823	EPA 200.8	835942	EPA 200.8	836306
60423617008	MW-110-030723	EPA 200.8	835942	EPA 200.8	836306
60423617009	MW-112-030723	EPA 200.8	835942	EPA 200.8	836306
60423617010	MW-113-030723	EPA 200.8	835942	EPA 200.8	836306
60423617011	MW-A-030824	EPA 200.8	835942	EPA 200.8	836306
60423617012	MW-B-030823	EPA 200.8	835942	EPA 200.8	836306
60423617013	MW-D-030823	EPA 200.8	835942	EPA 200.8	836306
60423617014	MW-N-030723	EPA 200.8	835942	EPA 200.8	836306
60423617015	MW-O-030723	EPA 200.8	835942	EPA 200.8	836306
60423617016	MW-P-030823	EPA 200.8	835946	EPA 200.8	836312
60423617017	DUP 01-LEC PAW-030723	EPA 200.8	835946	EPA 200.8	836312
60423617018	DUP 02-LEC PAW-030723	EPA 200.8	835946	EPA 200.8	836312
60423617001	MW-101-030723	SM 2320B	836948		
60423617002	MW-102-030823	SM 2320B	836948		
60423617003	MW-103-030823	SM 2320B	836948		
60423617004	MW-104-030823	SM 2320B	836948		
60423617005	MW-107-030723	SM 2320B	836948		
60423617006	MW-108-030723	SM 2320B	837865		
60423617007	MW-109-030823	SM 2320B	837865		
60423617008	MW-110-030723	SM 2320B	836948		
60423617009	MW-112-030723	SM 2320B	836948		
60423617010	MW-113-030723	SM 2320B	836948		
60423617011	MW-A-030824	SM 2320B	837865		
60423617012	MW-B-030823	SM 2320B	837865		
60423617013	MW-D-030823	SM 2320B	837865		
60423617014	MW-N-030723	SM 2320B	836948		
60423617015	MW-O-030723	SM 2320B	836948		
60423617016	MW-P-030823	SM 2320B	837865		
60423617017	DUP 01-LEC PAW-030723	SM 2320B	836948		
60423617018	DUP 02-LEC PAW-030723	SM 2320B	836948		
60423617001	MW-101-030723	SM 2540C	836216		
60423617002	MW-102-030823	SM 2540C	836217		
60423617003	MW-103-030823	SM 2540C	836217		
60423617004	MW-104-030823	SM 2540C	836217		
60423617005	MW-107-030723	SM 2540C	836217		
60423617006	MW-108-030723	SM 2540C	836217		
60423617007	MW-109-030823	SM 2540C	836217		
60423617008	MW-110-030723	SM 2540C	836216		
60423617009	MW-112-030723	SM 2540C	836216		
60423617010	MW-113-030723	SM 2540C	836216		

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423617011	MW-A-030824	SM 2540C	836217		
60423617012	MW-B-030823	SM 2540C	836217		
60423617013	MW-D-030823	SM 2540C	836217		
60423617014	MW-N-030723	SM 2540C	836216		
60423617015	MW-O-030723	SM 2540C	836216		
60423617016	MW-P-030823	SM 2540C	836217		
60423617017	DUP 01-LEC PAW-030723	SM 2540C	836216		
60423617018	DUP 02-LEC PAW-030723	SM 2540C	836216		
60423617001	MW-101-030723	SM 3500-Fe B#4	836684		
60423617002	MW-102-030823	SM 3500-Fe B#4	836684		
60423617003	MW-103-030823	SM 3500-Fe B#4	836684		
60423617004	MW-104-030823	SM 3500-Fe B#4	836684		
60423617005	MW-107-030723	SM 3500-Fe B#4	836684		
60423617006	MW-108-030723	SM 3500-Fe B#4	836684		
60423617007	MW-109-030823	SM 3500-Fe B#4	836684		
60423617008	MW-110-030723	SM 3500-Fe B#4	836684		
60423617009	MW-112-030723	SM 3500-Fe B#4	836684		
60423617010	MW-113-030723	SM 3500-Fe B#4	836684		
60423617011	MW-A-030824	SM 3500-Fe B#4	836684		
60423617012	MW-B-030823	SM 3500-Fe B#4	836684		
60423617013	MW-D-030823	SM 3500-Fe B#4	836685		
60423617014	MW-N-030723	SM 3500-Fe B#4	836684		
60423617015	MW-O-030723	SM 3500-Fe B#4	836684		
60423617016	MW-P-030823	SM 3500-Fe B#4	836684		
60423617017	DUP 01-LEC PAW-030723	SM 3500-Fe B#4	836684		
60423617018	DUP 02-LEC PAW-030723	SM 3500-Fe B#4	836684		
60423617001	MW-101-030723	SM 4500-H+B	836208		
60423617002	MW-102-030823	SM 4500-H+B	836208		
60423617003	MW-103-030823	SM 4500-H+B	836223		
60423617004	MW-104-030823	SM 4500-H+B	836223		
60423617005	MW-107-030723	SM 4500-H+B	836223		
60423617006	MW-108-030723	SM 4500-H+B	836223		
60423617007	MW-109-030823	SM 4500-H+B	836223		
60423617008	MW-110-030723	SM 4500-H+B	836208		
60423617009	MW-112-030723	SM 4500-H+B	836208		
60423617010	MW-113-030723	SM 4500-H+B	836208		
60423617011	MW-A-030824	SM 4500-H+B	836208		
60423617012	MW-B-030823	SM 4500-H+B	836208		
60423617013	MW-D-030823	SM 4500-H+B	836223		
60423617014	MW-N-030723	SM 4500-H+B	836208		
60423617015	MW-O-030723	SM 4500-H+B	836208		
60423617016	MW-P-030823	SM 4500-H+B	836223		

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Project: LEC PERIMETER ASH POND WELLS C-Revised Report

Pace Project No.: 60423617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423617017	DUP 01-LEC PAW-030723	SM 4500-H+B	836208		
60423617018	DUP 02-LEC PAW-030723	SM 4500-H+B	836208		
60423617001	MW-101-030723	SM 4500-S-2 D	836470		
60423617002	MW-102-030823	SM 4500-S-2 D	836470		
60423617003	MW-103-030823	SM 4500-S-2 D	836678		
60423617004	MW-104-030823	SM 4500-S-2 D	836678		
60423617005	MW-107-030723	SM 4500-S-2 D	836678		
60423617006	MW-108-030723	SM 4500-S-2 D	836678		
60423617007	MW-109-030823	SM 4500-S-2 D	836678		
60423617008	MW-110-030723	SM 4500-S-2 D	836470		
60423617009	MW-112-030723	SM 4500-S-2 D	836470		
60423617010	MW-113-030723	SM 4500-S-2 D	836470		
60423617011	MW-A-030824	SM 4500-S-2 D	836678		
60423617012	MW-B-030823	SM 4500-S-2 D	836678		
60423617013	MW-D-030823	SM 4500-S-2 D	836678		
60423617014	MW-N-030723	SM 4500-S-2 D	836470		
60423617015	MW-O-030723	SM 4500-S-2 D	836470		
60423617016	MW-P-030823	SM 4500-S-2 D	836678		
60423617017	DUP 01-LEC PAW-030723	SM 4500-S-2 D	836470		
60423617018	DUP 02-LEC PAW-030723	SM 4500-S-2 D	836470		
60423617001	MW-101-030723	EPA 300.0	836868		
60423617002	MW-102-030823	EPA 300.0	836868		
60423617003	MW-103-030823	EPA 300.0	836868		
60423617004	MW-104-030823	EPA 300.0	836868		
60423617005	MW-107-030723	EPA 300.0	836869		
60423617006	MW-108-030723	EPA 300.0	836869		
60423617007	MW-109-030823	EPA 300.0	836869		
60423617008	MW-110-030723	EPA 300.0	836869		
60423617009	MW-112-030723	EPA 300.0	836869		
60423617010	MW-113-030723	EPA 300.0	836869		
60423617011	MW-A-030824	EPA 300.0	836869		
60423617012	MW-B-030823	EPA 300.0	836869		
60423617013	MW-D-030823	EPA 300.0	836869		
60423617014	MW-N-030723	EPA 300.0	836869		
60423617015	MW-O-030723	EPA 300.0	836869		
60423617016	MW-P-030823	EPA 300.0	836869		
60423617017	DUP 01-LEC PAW-030723	EPA 300.0	836869		
60423617018	DUP 02-LEC PAW-030723	EPA 300.0	836869		
60423617001	MW-101-030723	SM 5310C	836949		
60423617002	MW-102-030823	SM 5310C	836950		
60423617003	MW-103-030823	SM 5310C	836950		
60423617004	MW-104-030823	SM 5310C	836950		
60423617005	MW-107-030723	SM 5310C	836950		

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Pace Project No.: 60423617

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423617006	MW-108-030723	SM 5310C	836950		
60423617007	MW-109-030823	SM 5310C	836950		
60423617008	MW-110-030723	SM 5310C	836950		
60423617009	MW-112-030723	SM 5310C	836950		
60423617010	MW-113-030723	SM 5310C	836950		
60423617011	MW-A-030824	SM 5310C	836950		
60423617012	MW-B-030823	SM 5310C	836950		
60423617013	MW-D-030823	SM 5310C	836950		
60423617014	MW-N-030723	SM 5310C	836950		
60423617015	MW-O-030723	SM 5310C	836950		
60423617016	MW-P-030823	SM 5310C	836950		
60423617017	DUP 01-LEC PAW-030723	SM 5310C	836950		
60423617018	DUP 02-LEC PAW-030723	SM 5310C	836950		
60423617001	MW-101-030723	SM 5310C	836186		
60423617002	MW-102-030823	SM 5310C	836186		
60423617003	MW-103-030823	SM 5310C	836186		
60423617004	MW-104-030823	SM 5310C	836186		
60423617005	MW-107-030723	SM 5310C	836186		
60423617006	MW-108-030723	SM 5310C	836186		
60423617007	MW-109-030823	SM 5310C	836186		
60423617008	MW-110-030723	SM 5310C	836186		
60423617009	MW-112-030723	SM 5310C	836186		
60423617010	MW-113-030723	SM 5310C	836186		
60423617011	MW-A-030824	SM 5310C	836186		
60423617012	MW-B-030823	SM 5310C	836186		
60423617013	MW-D-030823	SM 5310C	836186		
60423617014	MW-N-030723	SM 5310C	836186		
60423617015	MW-O-030723	SM 5310C	836186		
60423617016	MW-P-030823	SM 5310C	836186		
60423617017	DUP 01-LEC PAW-030723	SM 5310C	836186		
60423617018	DUP 02-LEC PAW-030723	SM 5310C	836186		

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

Revision: 2

Effective Date: 01/12/

WO#: 60423617



60423617

Client Name: Evergy

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 4.3 2.4 3.6 0.3 2.3 0.2 2.2 0.1 2.3 0.1 Corr. Factor -0.1 Corrected 4.2 2.3 3.5 0.2 2.2 0.1 2.3 0.1

Date and initials of person examining contents: BL 319

Temperature should be above freezing to 6°C

Chain of Custody present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Missing 2nd page when received</u>
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>BL 319</u>
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:
 Company: EVERGY KANSAS CENTRAL, INC.
 Address: 400 E Van Buren St
 Suite 545 Phoenix, AZ 85004
 Email To: skaney@halevaldrich.com
 Phone: 507-251-2232 Fax:
 Requested Due Date/TAT:

Section B

Required Project Information:
 Report To: Jake Humphrey
 Copy To: Laura Hines, Samantha Kaney, Melissa Michels
 Purchase Order No.:
 Project Name: LEC Perimeter Ash Pond Wells CCR
 Project Number:

Section C

Invoice Information:
 Attention: Accounts Payable
 Company Name: EVERGY KANSAS CENTRAL, INC
 Address: SAME AS A
 Pace Quote Reference:
 Pace Project Manager: Alice Spiller 913-563-1403
 Pace Profile #: 9655, 8

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER
Site Location
 STATE: KS

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Analysis Test Y/N	Requested Analysis Filtered (Y/N)													Pace Project No./ Lab I.D.
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	N	N	N		N	N	N	Y	Y	N	Y	Y	Residual Chlorine (Y/N)					
		DRINKING WATER	DW			DATE	TIME	DATE	TIME																												
1	MW-101-030723	WW	G	NA	NA	03/07/23	12:55	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
2	MW-102-030823	WW	G	NA	NA	03/08/23	10:30	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
3	MW-103-030823	WW	G	NA	NA	03/08/23	14:00	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
4	MW-104-030823	WW	G	NA	NA	03/08/23	11:50	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
5	MW-107-030723	WW	G	NA	NA	03/07/23	11:10	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
6	MW-108-030723	WW	G	NA	NA	03/07/23	10:40	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
7	MW-109-030823	WW	G	NA	NA	03/08/23	15:20	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
8	MW-110-030723	WW	G	NA	NA	03/07/23	13:45	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
9	MW-112-030723	WW	G	NA	NA	03/07/23	14:55	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
10	MW-113-030723	WW	G	NA	NA	03/07/23	12:35	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
11	MW-A-030823	WW	G	NA	NA	03/08/23	10:20	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
12	MW-B-030823	WW	G	NA	NA	03/08/23	9:50	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
**200.7 Total Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na,Pb, hardness	D. Coleman / Sci Eng.	7-23	1400	Pace	3/9	1420	4.2	Y	N		
*immediate hold time							2.3				
							2.3				
							9.1				

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: D. Coleman							
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed (MM/DD/YY): 3/9/23				

Page 100 of 103

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 2	
Company: EVERGY KANSAS CENTRAL, INC.		Report To: Jake Humphrey		Attention: Accounts Payable		REGULATORY AGENCY	
Address: 400 E Van Buren St		Copy To: Laura Hines, Samantha Kaney, Melissa Michels		Company Name: EVERGY KANSAS CENTRAL, INC			
Suite 545 Phoenix, AZ 85004				Address: SAME AS A		<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Email To: skaney@haleyvaldrich.com		Purchase Order No.:		Pace Quote Reference:		Site Location STATE: <u>KS</u>	
Phone: 507-251-2232 Fax:		Project Name: LEC Perimeter Ash Pond Wells CCR		Pace Project Manager: Alice Spiller 913-563-1403			
Requested Due Date/TAT:		Project Number:		Pace Profile #: 9655, 8			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D. 60423617
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Ferrous Iron* / 4500H+ pt	Sulfide / TDS		Alkalinity, Bicarbonate (Ca)	Alkalinity, Carbonate (Cat)	300: Cl, F, SO4	200.7 Total Metals**	200.8 Total As, Co, Mo	200.7 Diss (FF) Fe, Mn	200.8 Diss(FF) As, Mo	6010 Total Lithium	6010 Diss Lithium (FF)	TOC, DOC (FF)	Residual Chlorine (Y/N)		
		DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS			DATE	TIME	DATE	TIME																										
1	MW-D-030823	WW	G	NA	NA	03/08/23	15:35	NA	9	4	2	2		1				X	X	X	X	X	X	X	X	X	X	X	X						
2	MW-N-030723	WW	G	NA	NA	03/07/23	11:35	NA	9	4	2	2		1				X	X	X	X	X	X	X	X	X	X	X	X						
3	MW-O-030723	WW	G	NA	NA	03/07/23	13:50	NA	9	4	2	2		1				X	X	X	X	X	X	X	X	X	X	X	X						
4	MW-P-030823	WW	G	NA	NA	03/08/23	12:55	NA	9	4	2	2		1				X	X	X	X	X	X	X	X	X	X	X	X						
5	DUP 01-LEC PAW-030723	WW	G	NA	NA	03/07/23		NA	9	4	2	2		1				X	X	X	X	X	X	X	X	X	X	X	X						
6	DUP 02-LEC PAW-030723	WW	G	NA	NA	03/07/23		NA	9	4	2	2		1				X	X	X	X	X	X	X	X	X	X	X	X						
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**200.7 Total Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na,Pb, hardness	Jason R. Franks / SCS	3/9/23	14:00	<i>AK Pace</i>	3/9	1420	42.20
*immediate hold time							3.36
							2.33
							2.33
							2.33
							2.33
							2.33
							2.33
							2.33

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Britta Coleman					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 3/9/23				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Client: Energy

Profile # 457 9655 Line 8 1/2

Site: LEC Perimeter Ash Pond wells CCR

Notes _____

COC Line Item	Matrix	VG9H	DC9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other	
1	HT																														
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12	HT																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGDU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number:

60423617

Client: Energy
 Site: LEC Perimeter Ash Pond wells CCR

Profile # 9655 Line 8 212
 Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1	W												2						1		3									
2																														
3																														
4																														
5	W																													
6	W												2						1		3									
7																														
8																														
9																														
10																														
11																														
12																														

Glass		Plastic		Misc.			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter
DG9S	40mL H2SO4 amber vial	AG0U	100mL unres amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic		
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic		
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate		
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic		
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe
				BP4U	125mL unpreserved plastic	DW	Drinking Water
				BP4N	125mL HNO3 plastic		
				BP4S	125mL H2SO4 plastic		
				WPDU	16oz unpreserved plastic		

Work Order Number: 60423617

April 05, 2023

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

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423640

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

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

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60423640001	MW-101-030723	Water	03/07/23 12:55	03/09/23 14:20
60423640002	MW-102-030823	Water	03/08/23 10:30	03/09/23 14:20
60423640003	MW-103-030823	Water	03/08/23 14:00	03/09/23 14:20
60423640004	MW-104-030823	Water	03/08/23 11:50	03/09/23 14:20
60423640005	MW-107-030723	Water	03/07/23 11:10	03/09/23 14:20
60423640006	MW-108-030723	Water	03/07/23 10:40	03/09/23 14:20
60423640007	MW-109-030823	Water	01/03/23 15:20	03/09/23 14:20
60423640008	MW-110-030723	Water	03/07/23 13:45	03/09/23 14:20
60423640009	MW-112-030723	Water	03/07/23 14:55	03/09/23 14:20
60423640010	MW-113-030723	Water	03/07/23 12:35	03/09/23 14:20
60423640011	MW-A-030823	Water	03/08/23 10:20	03/09/23 14:20
60423640012	MW-B-030823	Water	03/08/23 09:50	03/09/23 14:20
60423640013	MW-D-030823	Water	03/08/23 15:35	03/09/23 14:20
60423640014	MW-N-030723	Water	03/07/23 11:35	03/09/23 14:20
60423640015	MW-O-030723	Water	03/07/23 13:50	03/09/23 14:20
60423640016	MW-P-030823	Water	03/08/23 12:55	03/09/23 14:20
60423640017	DUP 01-LEC PAW-030723	Water	03/07/23 00:00	03/09/23 14:20
60423640018	DUP 02-LEC PAW-030723	Water	03/07/23 00:00	03/09/23 14:20

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423640001	MW-101-030723	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640002	MW-102-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640003	MW-103-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640004	MW-104-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640005	MW-107-030723	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640006	MW-108-030723	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640007	MW-109-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640008	MW-110-030723	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640009	MW-112-030723	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640010	MW-113-030723	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640011	MW-A-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640012	MW-B-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640013	MW-D-030823	EPA 903.1	GDH	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423640014	MW-N-030723	EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
60423640015	MW-O-030723	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423640016	MW-P-030823	EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	GDH	1	PASI-PA
60423640017	DUP 01-LEC PAW-030723	EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
60423640018	DUP 02-LEC PAW-030723	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	GDH	1	PASI-PA
		EPA 904.0	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: April 05, 2023

General Information:

18 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:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: April 05, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: April 05, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-101-030723 **Lab ID: 60423640001** Collected: 03/07/23 12:55 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.154 ± 0.371 (0.927) C:NA T:98%	pCi/L	03/25/23 13:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.547 ± 0.328 (0.605) C:83% T:89%	pCi/L	03/23/23 11:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.547 ± 0.699 (1.53)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-102-030823 **Lab ID: 60423640002** Collected: 03/08/23 10:30 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.239 ± 0.519 (0.958) C:NA T:99%	pCi/L	03/25/23 13:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.374 ± 0.273 (0.530) C:85% T:96%	pCi/L	03/23/23 11:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.613 ± 0.792 (1.49)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-103-030823 **Lab ID: 60423640003** Collected: 03/08/23 14:00 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.507 (1.10) C:NA T:89%	pCi/L	03/25/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.748 ± 0.339 (0.547) C:85% T:92%	pCi/L	03/23/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.748 ± 0.846 (1.65)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-104-030823 **Lab ID: 60423640004** Collected: 03/08/23 11:50 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0746 ± 0.603 (1.18) C:NA T:98%	pCi/L	03/25/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.993 ± 0.392 (0.572) C:83% T:84%	pCi/L	03/23/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.995 (1.75)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-107-030723 **Lab ID: 60423640005** Collected: 03/07/23 11:10 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.682 ± 0.542 (0.704) C:NA T:98%	pCi/L	03/25/23 13:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.24 ± 0.408 (0.513) C:85% T:91%	pCi/L	03/23/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.92 ± 0.950 (1.22)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-108-030723 **Lab ID: 60423640006** Collected: 03/07/23 10:40 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0753 ± 0.708 (1.42) C:NA T:97%	pCi/L	03/25/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.703 ± 0.329 (0.540) C:87% T:90%	pCi/L	03/23/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.703 ± 1.04 (1.96)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-109-030823 **Lab ID: 60423640007** Collected: 01/03/23 15:20 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.513 ± 0.713 (1.20) C:NA T:93%	pCi/L	03/25/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.29 ± 0.491 (0.770) C:83% T:90%	pCi/L	03/23/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.80 ± 1.20 (1.97)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-110-030723 **Lab ID: 60423640008** Collected: 03/07/23 13:45 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.163 ± 0.505 (0.977) C:NA T:90%	pCi/L	03/25/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.13 ± 0.477 (0.789) C:81% T:84%	pCi/L	03/23/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.29 ± 0.982 (1.77)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-112-030723 **Lab ID: 60423640009** Collected: 03/07/23 14:55 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.167 ± 0.768 (1.57) C:NA T:100%	pCi/L	03/25/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.784 ± 0.381 (0.670) C:87% T:96%	pCi/L	03/23/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.784 ± 1.15 (2.24)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-113-030723 **Lab ID: 60423640010** Collected: 03/07/23 12:35 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.476 ± 0.438 (0.258) C:NA T:90%	pCi/L	03/25/23 14:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.793 ± 0.476 (0.907) C:87% T:79%	pCi/L	03/23/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 0.914 (1.17)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-A-030823 Lab ID: 60423640011 Collected: 03/08/23 10:20 Received: 03/09/23 14:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.466 ± 0.428 (0.252) C:NA T:91%	pCi/L	03/25/23 14:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.58 ± 0.518 (0.690) C:79% T:86%	pCi/L	03/23/23 13:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.05 ± 0.946 (0.942)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-B-030823 **Lab ID: 60423640012** Collected: 03/08/23 09:50 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.44 ± 0.878 (1.08) C:NA T:100%	pCi/L	03/25/23 14:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	11.3 ± 2.20 (0.576) C:82% T:86%	pCi/L	03/23/23 13:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	12.7 ± 3.08 (1.66)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-D-030823 **Lab ID: 60423640013** Collected: 03/08/23 15:35 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.849 ± 0.511 (0.209) C:NA T:97%	pCi/L	03/25/23 14:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.242 ± 0.294 (0.619) C:83% T:87%	pCi/L	03/23/23 13:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.09 ± 0.805 (0.828)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-N-030723 **Lab ID: 60423640014** Collected: 03/07/23 11:35 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	1.08 ± 0.870 (1.26) C:NA T:93%	pCi/L	03/25/23 14:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	3.04 ± 0.904 (1.06) C:80% T:53%	pCi/L	03/23/23 13:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.12 ± 1.77 (2.32)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: MW-O-030723 **Lab ID: 60423640015** Collected: 03/07/23 13:50 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.446 ± 0.680 (1.55) C:NA T:95%	pCi/L	03/25/23 14:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.887 ± 0.420 (0.711) C:79% T:86%	pCi/L	03/23/23 13:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.887 ± 1.10 (2.26)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.483 (1.05) C:NA T:95%	pCi/L	03/25/23 14:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.46 ± 0.449 (0.534) C:86% T:92%	pCi/L	03/23/23 16:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.46 ± 0.932 (1.58)	pCi/L	03/29/23 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: DUP 01-LEC PAW-030723 **Lab ID: 60423640017** Collected: 03/07/23 00:00 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.440 ± 0.671 (1.15) C:NA T:99%	pCi/L	03/25/23 14:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	2.55 ± 0.642 (0.586) C:88% T:93%	pCi/L	03/23/23 16:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.99 ± 1.31 (1.74)	pCi/L	03/29/23 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Sample: DUP 02-LEC PAW-030723 **Lab ID: 60423640018** Collected: 03/07/23 00:00 Received: 03/09/23 14:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.153 ± 0.367 (0.917) C:NA T:97%	pCi/L	03/25/23 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.423 ± 0.300 (0.578) C:83% T:97%	pCi/L	03/23/23 16:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.423 ± 0.667 (1.50)	pCi/L	03/29/23 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

QC Batch: 573916

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 60423640001, 60423640002, 60423640003, 60423640004, 60423640005, 60423640006, 60423640007, 60423640008, 60423640009, 60423640010, 60423640011, 60423640012, 60423640013, 60423640014, 60423640015, 60423640016, 60423640017, 60423640018

METHOD BLANK: 2787243

Matrix: Water

Associated Lab Samples: 60423640001, 60423640002, 60423640003, 60423640004, 60423640005, 60423640006, 60423640007, 60423640008, 60423640009, 60423640010, 60423640011, 60423640012, 60423640013, 60423640014, 60423640015, 60423640016, 60423640017, 60423640018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.123 ± 0.280 (0.452) C:NA T:101%	pCi/L	03/25/23 13:40	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

QC Batch:	573917	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60423640001, 60423640002, 60423640003, 60423640004, 60423640005, 60423640006, 60423640007, 60423640008, 60423640009, 60423640010, 60423640011, 60423640012, 60423640013, 60423640014, 60423640015, 60423640016, 60423640017, 60423640018

METHOD BLANK:	2787246	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 60423640001, 60423640002, 60423640003, 60423640004, 60423640005, 60423640006, 60423640007, 60423640008, 60423640009, 60423640010, 60423640011, 60423640012, 60423640013, 60423640014, 60423640015, 60423640016, 60423640017, 60423640018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.401 ± 0.278 (0.529) C:82% T:90%	pCi/L	03/23/23 11:36	

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: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423640001	MW-101-030723	EPA 903.1	573916		
60423640002	MW-102-030823	EPA 903.1	573916		
60423640003	MW-103-030823	EPA 903.1	573916		
60423640004	MW-104-030823	EPA 903.1	573916		
60423640005	MW-107-030723	EPA 903.1	573916		
60423640006	MW-108-030723	EPA 903.1	573916		
60423640007	MW-109-030823	EPA 903.1	573916		
60423640008	MW-110-030723	EPA 903.1	573916		
60423640009	MW-112-030723	EPA 903.1	573916		
60423640010	MW-113-030723	EPA 903.1	573916		
60423640011	MW-A-030823	EPA 903.1	573916		
60423640012	MW-B-030823	EPA 903.1	573916		
60423640013	MW-D-030823	EPA 903.1	573916		
60423640014	MW-N-030723	EPA 903.1	573916		
60423640015	MW-O-030723	EPA 903.1	573916		
60423640016	MW-P-030823	EPA 903.1	573916		
60423640017	DUP 01-LEC PAW-030723	EPA 903.1	573916		
60423640018	DUP 02-LEC PAW-030723	EPA 903.1	573916		
60423640001	MW-101-030723	EPA 904.0	573917		
60423640002	MW-102-030823	EPA 904.0	573917		
60423640003	MW-103-030823	EPA 904.0	573917		
60423640004	MW-104-030823	EPA 904.0	573917		
60423640005	MW-107-030723	EPA 904.0	573917		
60423640006	MW-108-030723	EPA 904.0	573917		
60423640007	MW-109-030823	EPA 904.0	573917		
60423640008	MW-110-030723	EPA 904.0	573917		
60423640009	MW-112-030723	EPA 904.0	573917		
60423640010	MW-113-030723	EPA 904.0	573917		
60423640011	MW-A-030823	EPA 904.0	573917		
60423640012	MW-B-030823	EPA 904.0	573917		
60423640013	MW-D-030823	EPA 904.0	573917		
60423640014	MW-N-030723	EPA 904.0	573917		
60423640015	MW-O-030723	EPA 904.0	573917		
60423640016	MW-P-030823	EPA 904.0	573917		
60423640017	DUP 01-LEC PAW-030723	EPA 904.0	573917		
60423640018	DUP 02-LEC PAW-030723	EPA 904.0	573917		
60423640001	MW-101-030723	Total Radium Calculation	577126		
60423640002	MW-102-030823	Total Radium Calculation	577126		
60423640003	MW-103-030823	Total Radium Calculation	577126		
60423640004	MW-104-030823	Total Radium Calculation	577126		
60423640005	MW-107-030723	Total Radium Calculation	577126		
60423640006	MW-108-030723	Total Radium Calculation	577126		
60423640007	MW-109-030823	Total Radium Calculation	577126		
60423640008	MW-110-030723	Total Radium Calculation	577126		
60423640009	MW-112-030723	Total Radium Calculation	577126		
60423640010	MW-113-030723	Total Radium Calculation	577126		
60423640011	MW-A-030823	Total Radium Calculation	577126		
60423640012	MW-B-030823	Total Radium Calculation	577126		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423640

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423640013	MW-D-030823	Total Radium Calculation	577126		
60423640014	MW-N-030723	Total Radium Calculation	577126		
60423640015	MW-O-030723	Total Radium Calculation	577126		
60423640016	MW-P-030823	Total Radium Calculation	577126		
60423640017	DUP 01-LEC PAW-030723	Total Radium Calculation	577126		
60423640018	DUP 02-LEC PAW-030723	Total Radium Calculation	577126		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-LENE-0009_Samp Condition Upon Receipt (SCUR)

WO#: 60423640

Revision: 2

Effective Date: 01/12/2



Client Name: Every

Courier: FedEx UPS VIA Clay PEX ECI

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 9.5 19.1 9.0 Corr. Factor 0.1 Corrected 9.4 19.0 8.9

Date and initials of person examining contents: 12/3/10

Temperature should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

1/2

Client: Energy
 Site: LEC Perimeter Ash Pond wells CCR

Profile # 9655 Line 8

Notes _____

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1	Matrix																													
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number: 60423640

2/2

Client: Energy

Profile # 9655 Line 8

Site: LEC Perimeter Ash Pond wells CCR

Notes _____


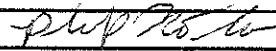
COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other	
1	KT																					2									
2																															
3																															
4																															
5	KT																														
6	KT																														
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass				Plastic				Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BP1C	1L NaOH plastic	I	Wipe/Swab		
DG9H	40mL HCl amber vial	WGFU	4oz clear soil jar	BP1N	1L HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate		
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic	ZPLC	Ziploc Bag		
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic	AF	Air Filter		
DG9S	40mL H2SO4 amber vial	AG0U	100mL unres amber glass	BP1Z	1L NaOH, Zn Acetate	C	Air Cassettes		
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NaOH plastic	R	Terracore Kit		
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic	U	Summa Can		
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic				
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic				
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate				
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic				
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered	WT	Water		
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	SL	Solid		
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic	NAL	Non-aqueous Liquid		
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	OIL		
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate	WP	Wipe		
				BP4U	125mL unpreserved plastic	DW	Drinking Water		
				BP4N	125mL HNO3 plastic				
				BP4S	125mL H2SO4 plastic				
				WPDU	16oz unpreserved plastic				

Work Order Number:

60423640

					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1		3/13 1800			
2					
3				3/14/23 11:25	
Cooler Temperature on Receipt ~ °C		Custody Seal Y or (N)		Received on Ice Y or (N)	Samples Intact (Y) or N

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

WO#: 30569742
 PM: MAR Due Date: 04/04/23
 CLIENT: PACE_60_LEKS



DC#_ Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-
Pittsburgh

WO#: 30569742

Effective Date: 02/03/2023

PM: MAR Due Date: 04/04/23
CLIENT: PACE_60_LEKS

Client Name: Pace -KS

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 609107974832

Examined By	<u>PS</u>
Labeled By	<u>PS</u>
Temped By	<u>PS</u>

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

Thermometer Used: _____ Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	<u>10D2221</u>	
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:	/			4.	
Sample Labels match COC: -Includes date/time/ID Matrix: _____	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	
624.1: Headspace in VOA Vials (0mm)			/	18.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed <u>PS</u>	Date: <u>3/14/23</u> Survey Meter SN: <u>1563</u>
Comments:					

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

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: GDH
Date: 3/20/2023
Batch ID: 71986
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2787243
MB Concentration:	0.123
M/B Counting Uncertainty:	0.241
MB MDC:	0.452
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS71986	LCSD71986
Count Date:	3/25/2023	3/25/2023
Spike I.D.:	21-040	21-040
Spike Concentration (pCi/mL):	32.419	32.419
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.651	0.654
Target Conc. (pCi/L, g, F):	4.980	4.955
Uncertainty (Calculated):	0.234	0.233
Result (pCi/L, g, F):	4.129	5.656
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.002	1.196
Numerical Performance Indicator:	-1.62	1.13
Percent Recovery:	82.90%	114.15%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	133%	133%
Lower % Recovery Limits:	73%	73%

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

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS71986	
Duplicate Sample I.D.:	LCSD71986	
Sample Result (pCi/L, g, F):	4.129	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.002	
Sample Duplicate Result (pCi/L, g, F):	5.656	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.196	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.918	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	31.71%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

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

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

Comments:

GDH
3/25/23

Page 3/26/23



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JGH
Date: 3/21/2023
Worklist: 71987
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2787246	
MB concentration:	0.401	
M/B 2 Sigma CSU:	0.278	
MB MDC:	0.529	
MB Numerical Performance Indicator:	2.83	
MB Status vs Numerical Indicator:	Warning	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71987	LCSD71987
Count Date:	3/23/2023	3/23/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.146	33.146
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.801	0.800
Target Conc. (pCi/L, g, F):	4.136	4.142
Uncertainty (Calculated):	0.203	0.203
Result (pCi/L, g, F):	2.831	3.215
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.680	0.742
Numerical Performance Indicator:	-3.61	-2.36
Percent Recovery:	68.45%	77.63%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS71987	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD71987	
Sample Result (pCi/L, g, F):	2.831	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.680	
Sample Duplicate Result (pCi/L, g, F):	3.215	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.742	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.749	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.56%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

Handwritten signature

*VAL
3/24/23*

March 27, 2023

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

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423765

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60423765001	MW-M-031023	Water	03/10/23 10:05	03/10/23 17:30
60423765002	MW-C-031024	Water	03/10/23 09:00	03/10/23 17:30
60423765003	MW-106-031025	Water	03/10/23 13:20	03/10/23 17:30
60423765004	MWL	Water	03/07/23 15:10	03/10/23 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory		
60423765001	MW-M-031023	EPA 200.7	ALH	10	PASI-K		
		EPA 200.7	ALH	2	PASI-K		
		EPA 6010	ALH	1	PASI-K		
		EPA 6010	ALH	1	PASI-K		
		EPA 200.8	MA1	3	PASI-K		
		EPA 200.8	MA1	2	PASI-K		
		SM 2320B	BLA	3	PASI-K		
		SM 2540C	MLD	1	PASI-K		
		SM 3500-Fe B#4	CRN2	1	PASI-K		
		SM 4500-H+B	RB	1	PASI-K		
		SM 4500-S-2 D	CRN2	1	PASI-K		
		EPA 300.0	CRN2	3	PASI-K		
		SM 5310C	BLA	1	PASI-K		
		SM 5310C	BLA	1	PASI-K		
		60423765002	MW-C-031024	EPA 200.7	ALH	10	PASI-K
				EPA 200.7	ALH	2	PASI-K
EPA 6010	ALH			1	PASI-K		
EPA 6010	ALH			1	PASI-K		
EPA 200.8	MA1			3	PASI-K		
EPA 200.8	MA1			2	PASI-K		
SM 2320B	BLA			3	PASI-K		
SM 2540C	MLD			1	PASI-K		
SM 3500-Fe B#4	CRN2			1	PASI-K		
SM 4500-H+B	RB			1	PASI-K		
SM 4500-S-2 D	CRN2			1	PASI-K		
EPA 300.0	CRN2			3	PASI-K		
SM 5310C	BLA			1	PASI-K		
SM 5310C	BLA			1	PASI-K		
60423765003	MW-106-031025			EPA 200.7	ALH	10	PASI-K
				EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K		
		EPA 6010	ALH	1	PASI-K		
		EPA 200.8	MA1	3	PASI-K		
		EPA 200.8	MA1	2	PASI-K		
		SM 2320B	BLA	3	PASI-K		
		SM 2540C	MLD	1	PASI-K		
		SM 3500-Fe B#4	CRN2	1	PASI-K		

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	RB	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 200.8

Description: 200.8 MET ICPMS, Dissolved

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 samples were analyzed for SM 2320B 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 samples were analyzed for SM 3500-Fe B#4 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.

- MW-106-031025 (Lab ID: 60423765003)
- MW-C-031024 (Lab ID: 60423765002)
- MW-M-031023 (Lab ID: 60423765001)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 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.

- MW-106-031025 (Lab ID: 60423765003)
- MW-C-031024 (Lab ID: 60423765002)
- MW-M-031023 (Lab ID: 60423765001)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 samples were analyzed for SM 4500-S-2 D 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: 836678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617003

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

- MS (Lab ID: 3318133)
 - Sulfide, Total
- MSD (Lab ID: 3318134)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 samples were analyzed for SM 5310C 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

3 samples were analyzed for SM 5310C 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:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Sample: MW-M-031023	Lab ID: 60423765001	Collected: 03/10/23 10:05	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.18	mg/L	0.0050	1	03/14/23 09:57	03/22/23 17:46	7440-39-3	
Boron, Total Recoverable	0.41	mg/L	0.10	1	03/14/23 09:57	03/22/23 17:46	7440-42-8	
Calcium, Total Recoverable	166	mg/L	0.20	1	03/14/23 09:57	03/22/23 17:46	7440-70-2	
Hardness, Magnesium (SM 2340B)	80.4	mg/L	0.21	1	03/14/23 09:57	03/22/23 17:46		
Iron, Total Recoverable	0.87	mg/L	0.050	1	03/14/23 09:57	03/22/23 17:46	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/14/23 09:57	03/22/23 17:46	7439-92-1	
Magnesium, Total Recoverable	19.5	mg/L	0.050	1	03/14/23 09:57	03/22/23 17:46	7439-95-4	
Manganese, Total Recoverable	958	ug/L	5.0	1	03/14/23 09:57	03/22/23 17:46	7439-96-5	
Potassium, Total Recoverable	6.5	mg/L	0.50	1	03/14/23 09:57	03/22/23 17:46	7440-09-7	
Sodium, Total Recoverable	24.4	mg/L	0.50	1	03/14/23 09:57	03/22/23 17:46	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:29	7439-89-6	
Manganese, Dissolved	0.037	mg/L	0.0050	1	03/14/23 09:57	03/22/23 18:29	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.019	mg/L	0.010	1	03/14/23 09:57	03/22/23 17:25	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.017	mg/L	0.010	1	03/14/23 09:57	03/22/23 18:07	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0049	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:42	7440-38-2	
Cobalt, Total Recoverable	0.0012	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:42	7440-48-4	
Molybdenum, Total Recoverable	0.0097	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:42	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0042	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:03	7440-38-2	
Molybdenum, Dissolved	0.0074	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:03	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	405	mg/L	20.0	1		03/22/23 12:11		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 12:11		
Alkalinity, Total as CaCO ₃	405	mg/L	20.0	1		03/22/23 12:11		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	669	mg/L	10.0	1		03/16/23 09:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Sample: MW-M-031023	Lab ID: 60423765001	Collected: 03/10/23 10:05	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:50	15438-31-0	H6
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	8.2	Std. Units	0.10	1		03/14/23 09:21		H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:30	18496-25-8	
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	28.6	mg/L	20.0	20		03/20/23 17:22	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/20/23 17:09	16984-48-8	
Sulfate	126	mg/L	20.0	20		03/20/23 17:22	14808-79-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	1.3	mg/L	1.0	1		03/22/23 18:31	7440-44-0	
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.5	mg/L	1.0	1		03/15/23 18:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Sample: MW-C-031024	Lab ID: 60423765002	Collected: 03/10/23 09:00	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.11	mg/L	0.0050	1	03/14/23 09:57	03/22/23 17:52	7440-39-3	
Boron, Total Recoverable	0.27	mg/L	0.10	1	03/14/23 09:57	03/22/23 17:52	7440-42-8	
Calcium, Total Recoverable	165	mg/L	0.20	1	03/14/23 09:57	03/22/23 17:52	7440-70-2	
Hardness, Magnesium (SM 2340B)	78.0	mg/L	0.21	1	03/14/23 09:57	03/22/23 17:52		
Iron, Total Recoverable	<0.050	mg/L	0.050	1	03/14/23 09:57	03/22/23 17:52	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/14/23 09:57	03/22/23 17:52	7439-92-1	
Magnesium, Total Recoverable	18.9	mg/L	0.050	1	03/14/23 09:57	03/22/23 17:52	7439-95-4	
Manganese, Total Recoverable	26.7	ug/L	5.0	1	03/14/23 09:57	03/22/23 17:52	7439-96-5	
Potassium, Total Recoverable	6.0	mg/L	0.50	1	03/14/23 09:57	03/22/23 17:52	7440-09-7	
Sodium, Total Recoverable	31.5	mg/L	0.50	1	03/14/23 09:57	03/22/23 17:52	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.056	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:35	7439-89-6	D9
Manganese, Dissolved	0.051	mg/L	0.0050	1	03/14/23 09:57	03/22/23 18:35	7439-96-5	D9
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.021	mg/L	0.010	1	03/14/23 09:57	03/22/23 17:31	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.023	mg/L	0.010	1	03/14/23 09:57	03/22/23 18:14	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.0029	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:45	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:45	7440-48-4	
Molybdenum, Total Recoverable	0.010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:45	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0028	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:06	7440-38-2	
Molybdenum, Dissolved	0.010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:06	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	393	mg/L	20.0	1		03/22/23 12:30		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 12:30		
Alkalinity, Total as CaCO ₃	393	mg/L	20.0	1		03/22/23 12:30		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	641	mg/L	10.0	1		03/16/23 09:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Sample: MW-C-031024		Lab ID: 60423765002		Collected: 03/10/23 09:00	Received: 03/10/23 17:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:49	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	8.2	Std. Units	0.10	1		03/14/23 09:20		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:30	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	28.9	mg/L	20.0	20		03/20/23 18:16	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/20/23 17:36	16984-48-8	
Sulfate	96.5	mg/L	20.0	20		03/20/23 18:16	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	1.2	mg/L	1.0	1		03/22/23 18:47	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	1.5	mg/L	1.0	1		03/15/23 18:26		

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Sample: MW-106-031025	Lab ID: 60423765003	Collected: 03/10/23 13:20	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.20	mg/L	0.0050	1	03/14/23 09:57	03/22/23 17:55	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/14/23 09:57	03/22/23 17:55	7440-42-8	
Calcium, Total Recoverable	40.6	mg/L	0.20	1	03/14/23 09:57	03/22/23 17:55	7440-70-2	
Hardness, Magnesium (SM 2340B)	25.1	mg/L	0.21	1	03/14/23 09:57	03/22/23 17:55		
Iron, Total Recoverable	1.5	mg/L	0.050	1	03/14/23 09:57	03/22/23 17:55	7439-89-6	
Lead, Total Recoverable	<0.010	mg/L	0.010	1	03/14/23 09:57	03/22/23 17:55	7439-92-1	
Magnesium, Total Recoverable	6.1	mg/L	0.050	1	03/14/23 09:57	03/22/23 17:55	7439-95-4	
Manganese, Total Recoverable	54.0	ug/L	5.0	1	03/14/23 09:57	03/22/23 17:55	7439-96-5	
Potassium, Total Recoverable	2.1	mg/L	0.50	1	03/14/23 09:57	03/22/23 17:55	7440-09-7	
Sodium, Total Recoverable	41.3	mg/L	0.50	1	03/14/23 09:57	03/22/23 17:55	7440-23-5	
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	<0.050	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:37	7439-89-6	
Manganese, Dissolved	<0.0050	mg/L	0.0050	1	03/14/23 09:57	03/22/23 18:37	7439-96-5	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.014	mg/L	0.010	1	03/14/23 09:57	03/22/23 17:33	7439-93-2	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.014	mg/L	0.010	1	03/14/23 09:57	03/22/23 18:16	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:53	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:53	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 13:53	7439-98-7	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	<0.0010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:14	7440-38-2	
Molybdenum, Dissolved	<0.0010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:14	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	209	mg/L	20.0	1		03/22/23 12:36		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 12:36		
Alkalinity, Total as CaCO ₃	209	mg/L	20.0	1		03/22/23 12:36		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	273	mg/L	5.0	1		03/16/23 09:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Sample: MW-106-031025		Lab ID: 60423765003		Collected: 03/10/23 13:20	Received: 03/10/23 17:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:51	15438-31-0	H6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	8.2	Std. Units	0.10	1		03/14/23 09:26		H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	0.059	mg/L	0.050	1		03/15/23 15:31	18496-25-8	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	2.0	mg/L	1.0	1		03/20/23 18:29	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/20/23 18:29	16984-48-8	
Sulfate	3.6	mg/L	1.0	1		03/20/23 18:29	14808-79-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	<1.0	mg/L	1.0	1		03/22/23 19:02	7440-44-0	
5310C Dissolved Organic Carbon		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Dissolved Organic Carbon	2.5	mg/L	1.0	1		03/13/23 14:53		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch: 836377 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3317404 Matrix: Water
 Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/22/23 17:42	
Boron	mg/L	<0.10	0.10	03/22/23 17:42	
Calcium	mg/L	<0.20	0.20	03/22/23 17:42	
Hardness, Magnesium (SM 2340B)	mg/L	<0.21	0.21	03/22/23 17:42	
Iron	mg/L	<0.050	0.050	03/22/23 17:42	
Lead	mg/L	<0.010	0.010	03/22/23 17:42	
Magnesium	mg/L	<0.050	0.050	03/22/23 17:42	
Manganese	ug/L	<5.0	5.0	03/22/23 17:42	
Potassium	mg/L	<0.50	0.50	03/22/23 17:42	
Sodium	mg/L	<0.50	0.50	03/22/23 17:42	

LABORATORY CONTROL SAMPLE: 3317405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	0.99	99	85-115	
Boron	mg/L	1	0.93	93	85-115	
Calcium	mg/L	10	9.8	98	85-115	
Hardness, Magnesium (SM 2340B)	mg/L	41.2	39.4	96	85-115	
Iron	mg/L	10	10.0	100	85-115	
Lead	mg/L	1	0.99	99	85-115	
Magnesium	mg/L	10	9.6	96	85-115	
Manganese	ug/L	1000	979	98	85-115	
Potassium	mg/L	10	10	100	85-115	
Sodium	mg/L	10	10.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317406 3317407

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423765001 Result	Spike Conc.	Spike Conc.	MS Conc.								
Barium	mg/L	0.18	1	1	1.2	1.2	101	102	70-130	1	20		
Boron	mg/L	0.41	1	1	1.4	1.4	97	100	70-130	2	20		
Calcium	mg/L	166	10	10	179	178	126	113	70-130	1	20		
Hardness, Magnesium (SM 2340B)	mg/L	80.4	41.2	41.2	123	123	102	103	70-130	0	20		
Iron	mg/L	0.87	10	10	11.2	11.3	104	104	70-130	1	20		
Lead	mg/L	<0.010	1	1	0.98	1.0	98	101	70-130	4	20		
Magnesium	mg/L	19.5	10	10	29.8	29.9	102	103	70-130	0	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317406 3317407												
Parameter	Units	60423765001		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Manganese	ug/L	958	1000	1000	1900	1970	94	101	70-130	3	20	
Potassium	mg/L	6.5	10	10	17.1	17.3	107	108	70-130	1	20	
Sodium	mg/L	24.4	10	10	35.8	35.2	114	108	70-130	2	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836380	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423765001, 60423765002, 60423765003		

METHOD BLANK: 3317416 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	03/22/23 18:25	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/22/23 18:25	

LABORATORY CONTROL SAMPLE: 3317417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	10.0	100	85-115	
Manganese, Dissolved	mg/L	1	1.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317418 3317419

Parameter	Units	60423765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	mg/L	<0.050	10	10	10.0	10.3	100	103	70-130	2	20	
Manganese, Dissolved	mg/L	0.037	1	1	1.0	1.0	98	100	70-130	2	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836378	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: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3317408 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/21/23 13:37	
Cobalt	mg/L	<0.0010	0.0010	03/21/23 13:37	
Molybdenum	mg/L	<0.0010	0.0010	03/21/23 13:37	

LABORATORY CONTROL SAMPLE: 3317409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.039	97	85-115	
Cobalt	mg/L	0.04	0.039	98	85-115	
Molybdenum	mg/L	0.04	0.040	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317410 3317411

Parameter	Units	60423765002		3317410		3317411		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Arsenic	mg/L	0.0029	0.04	0.04	0.041	0.042	96	98	70-130	2	20		
Cobalt	mg/L	<0.0010	0.04	0.04	0.038	0.039	95	96	70-130	2	20		
Molybdenum	mg/L	0.010	0.04	0.04	0.052	0.052	103	105	70-130	1	20		

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836381	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423765001, 60423765002, 60423765003		

METHOD BLANK: 3317420 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/23 13:58	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	03/21/23 13:58	

LABORATORY CONTROL SAMPLE: 3317421

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.038	95	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.040	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317422 3317423

Parameter	Units	60423765002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	mg/L	0.0028	0.04	0.04	0.041	0.042	96	97	70-130	1	20	
Molybdenum, Dissolved	mg/L	0.010	0.04	0.04	0.052	0.052	105	105	70-130	0	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836376	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3317400 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/22/23 17:21	

LABORATORY CONTROL SAMPLE: 3317401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317402 3317403

Parameter	Units	3317402		3317403		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lithium	mg/L	0.019	1	1	1.0	1.1	102	104	75-125	3	20

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836379	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423765001, 60423765002, 60423765003		

METHOD BLANK: 3317412 Matrix: Water
Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/22/23 18:03	

LABORATORY CONTROL SAMPLE: 3317413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317414 3317415

Parameter	Units	60423765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium, Dissolved	mg/L	0.017	1	1	1.1	1.1	103	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423765

QC Batch: 837865 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3322151 Matrix: Water
Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	ND	20.0	03/22/23 09:57	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	ND	20.0	03/22/23 09:57	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	20.0	03/22/23 09:57	

LABORATORY CONTROL SAMPLE: 3322152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	500	481	96	90-110	

SAMPLE DUPLICATE: 3322153

Parameter	Units	60423617006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	284	282	0	10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	284	282	0	10	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3322154

Parameter	Units	60423623004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	697	702	1	10	
Alkalinity,Bicarbonate (CaCO ₃)	mg/L	697	702	1	10	
Alkalinity,Carbonate (CaCO ₃)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836924	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3319163 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/16/23 09:29	

LABORATORY CONTROL SAMPLE: 3319164

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

SAMPLE DUPLICATE: 3319165

Parameter	Units	60423752001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	842	852	1	10	

SAMPLE DUPLICATE: 3319166

Parameter	Units	60423767001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1530	2	10	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836685	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3318162 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/15/23 13:48	H6

LABORATORY CONTROL SAMPLE: 3318163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	103	90-110	H6

SAMPLE DUPLICATE: 3318164

Parameter	Units	60423617013 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	836225	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002, 60423765003

SAMPLE DUPLICATE: 3317067

Parameter	Units	60423669001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.4	5	5	H6

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch: 836678 Analysis Method: SM 4500-S-2 D
 QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
 Laboratory: Pace Analytical Services - Kansas City
 Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3318131 Matrix: Water
 Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/15/23 15:24	

LABORATORY CONTROL SAMPLE: 3318132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3318133 3318134

Parameter	Units	60423617003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.26	0.26	51	51	75-125	0	20	M1

SAMPLE DUPLICATE: 3318135

Parameter	Units	60423617004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 3318136

Parameter	Units	60423819001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	837290	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3320643 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/20/23 09:33	
Fluoride	mg/L	<0.20	0.20	03/20/23 09:33	
Sulfate	mg/L	<1.0	1.0	03/20/23 09:33	

METHOD BLANK: 3322668 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/23 12:58	
Fluoride	mg/L	<0.20	0.20	03/21/23 12:58	
Sulfate	mg/L	<1.0	1.0	03/21/23 12:58	

LABORATORY CONTROL SAMPLE: 3320644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 3322669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3320645 3320646

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423972001 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	74.5	100	100	169	163	94	89	80-120	3	15
Fluoride	mg/L	<0.20	2.5	2.5	2.1	2.1	85	86	80-120	1	15
Sulfate	mg/L	81.2	100	100	186	178	105	97	80-120	4	15

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch:	837868	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002, 60423765003

METHOD BLANK: 3322165 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002, 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	03/22/23 10:29	

LABORATORY CONTROL SAMPLE: 3322166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	97	80-120	

MATRIX SPIKE SAMPLE: 3322167

Parameter	Units	60423837001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	25	25.2	87	80-120	

SAMPLE DUPLICATE: 3322168

Parameter	Units	60423837003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	33.5	32.1	4	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

QC Batch: 836186	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765001, 60423765002

METHOD BLANK: 3316979 Matrix: Water

Associated Lab Samples: 60423765001, 60423765002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/15/23 11:19	

LABORATORY CONTROL SAMPLE: 3316980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.9	98	80-120	

MATRIX SPIKE SAMPLE: 3316981

Parameter	Units	60423617001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.6	5	7.1	91	80-120	

SAMPLE DUPLICATE: 3316982

Parameter	Units	60423617003 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	5.6	5.8	3	25	

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QUALITY CONTROL DATA

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423765

QC Batch: 836187	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Dissolved Organic Carbon
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423765003

METHOD BLANK: 3316983 Matrix: Water
Associated Lab Samples: 60423765003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/13/23 10:48	

LABORATORY CONTROL SAMPLE: 3316984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3316986 3316987

Parameter	Units	10645054001		3316987		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Dissolved Organic Carbon	mg/L	1.9	5	5	6.5	6.5	92	92	80-120	0	25

SAMPLE DUPLICATE: 3316985

Parameter	Units	10645054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	1.9	1.9	1	25	

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: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

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

D9 Dissolved result is greater than the total. Data is within 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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423765001	MW-M-031023	EPA 200.7	836377	EPA 200.7	836537
60423765002	MW-C-031024	EPA 200.7	836377	EPA 200.7	836537
60423765003	MW-106-031025	EPA 200.7	836377	EPA 200.7	836537
60423765001	MW-M-031023	EPA 200.7	836380	EPA 200.7	836542
60423765002	MW-C-031024	EPA 200.7	836380	EPA 200.7	836542
60423765003	MW-106-031025	EPA 200.7	836380	EPA 200.7	836542
60423765001	MW-M-031023	EPA 3010	836376	EPA 6010	836536
60423765002	MW-C-031024	EPA 3010	836376	EPA 6010	836536
60423765003	MW-106-031025	EPA 3010	836376	EPA 6010	836536
60423765001	MW-M-031023	EPA 3010	836379	EPA 6010	836540
60423765002	MW-C-031024	EPA 3010	836379	EPA 6010	836540
60423765003	MW-106-031025	EPA 3010	836379	EPA 6010	836540
60423765001	MW-M-031023	EPA 200.8	836378	EPA 200.8	836538
60423765002	MW-C-031024	EPA 200.8	836378	EPA 200.8	836538
60423765003	MW-106-031025	EPA 200.8	836378	EPA 200.8	836538
60423765001	MW-M-031023	EPA 200.8	836381	EPA 200.8	836543
60423765002	MW-C-031024	EPA 200.8	836381	EPA 200.8	836543
60423765003	MW-106-031025	EPA 200.8	836381	EPA 200.8	836543
60423765001	MW-M-031023	SM 2320B	837865		
60423765002	MW-C-031024	SM 2320B	837865		
60423765003	MW-106-031025	SM 2320B	837865		
60423765001	MW-M-031023	SM 2540C	836924		
60423765002	MW-C-031024	SM 2540C	836924		
60423765003	MW-106-031025	SM 2540C	836924		
60423765001	MW-M-031023	SM 3500-Fe B#4	836685		
60423765002	MW-C-031024	SM 3500-Fe B#4	836685		
60423765003	MW-106-031025	SM 3500-Fe B#4	836685		
60423765001	MW-M-031023	SM 4500-H+B	836225		
60423765002	MW-C-031024	SM 4500-H+B	836225		
60423765003	MW-106-031025	SM 4500-H+B	836225		
60423765001	MW-M-031023	SM 4500-S-2 D	836678		
60423765002	MW-C-031024	SM 4500-S-2 D	836678		
60423765003	MW-106-031025	SM 4500-S-2 D	836678		
60423765001	MW-M-031023	EPA 300.0	837290		
60423765002	MW-C-031024	EPA 300.0	837290		
60423765003	MW-106-031025	EPA 300.0	837290		
60423765001	MW-M-031023	SM 5310C	837868		
60423765002	MW-C-031024	SM 5310C	837868		
60423765003	MW-106-031025	SM 5310C	837868		
60423765001	MW-M-031023	SM 5310C	836186		
60423765002	MW-C-031024	SM 5310C	836186		
60423765003	MW-106-031025	SM 5310C	836187		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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REPORT OF LABORATORY ANALYSIS

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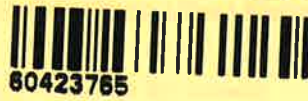


DC#_Title: ENV-FRM-LENE-0009_Sam

Revision: 2

Effective Date: 01/12/

WO#: 60423765



Client Name: Energy

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 32 Corr. Factor 01 Corrected 3.1

Date and initials of person examining contents: BC 3/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Extra sample received</u> <u>BC 3/11</u>
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>MWL 03/07/23 @ 1510</u>
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: <u>67187</u> <u>62071</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:
 Company: EVERGY KANSAS CENTRAL, INC.
 Address: 400 E Van Buren St
 Suite 545 Phoenix, AZ 85004
 Email To: skaney@haleydrich.com
 Phone: 507-251-2232 Fax:
 Requested Due Date/TAT:

Section B

Required Project Information:
 Report To: Jake Humphrey
 Copy To: Laura Hines, Samantha Kaney, Melissa Michels
 Purchase Order No.:
 Project Name: LEC Perimeter Ash Pond Wells CCR
 Project Number:

Section C

Invoice Information:
 Attention: Accounts Payable
 Company Name: EVERGY KANSAS CENTRAL, INC
 Address: SAME AS A
 Pace Quote Reference:
 Pace Project Manager: Alice Spiller 913-563-1403
 Pace Profile #: 9655, 8

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
Site Location
STATE: KS

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D. 60423765
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	Y	N	N	N	N	N	N	Y	Y	N	Y	Y			
					DATE	TIME	DATE	TIME																								Ferrous Iron* / 4500H+ pH	Sulfide / TDS	
1	MW-M-031023		WW	G	NA	NA	03/10/23	10:05	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	MW-C-031024		WW	G	NA	NA	03/10/23	9:00	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	MW-106-031025		WW	G	NA	NA	03/10/23	13:20	NA	9	4	2	2	1					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4			WW	G					NA																									
5			WW	G					NA																									
6			WW	G					NA																									
7			WW	G					NA																									
8			WW	G					NA																									
9			WW	G					NA																									
10			WW	G					NA																									
11			WW	G					NA																									
12			WW	G					NA																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**200.7 Total Metals: Ba, B, Ca, Fe, Mg, Mn, K, Na, Pb, hardness	Matt VanderPutten / SCS	3/10/23	17:00	<i>[Signature]</i>	3/10/23	17:30	30 Y Y
*immediate hold time							

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Matt VanderPutten							
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed (MM/DD/YY): 3/10/23				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-Q-020rev.08, 12-Oct-2007

March 27, 2023

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

RE: Project: LEC INACTIVE ASH PONDS CCR ADD
Pace Project No.: 60423767

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60423767001	MW-K-031023	Water	03/10/23 11:25	03/10/23 17:30
60423767002	MW-37-031023	Water	03/10/23 09:35	03/10/23 17:30
60423767003	MW-38-031023	Water	03/10/23 10:30	03/10/23 17:30
60423767004	MW-39-031023	Water	03/10/23 11:20	03/10/23 17:30
60423767005	MW-40-031023	Water	03/10/23 12:05	03/10/23 17:30
60423767006	MW-DUP 3 LEC IAP-031023	Water	03/10/23 11:25	03/10/23 17:30
60423767008	MWL-L-030723	Water	03/07/23 15:10	03/10/23 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423767001	MW-K-031023	EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423767002	MW-37-031023	EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423767003	MW-38-031023	EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
		SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
60423767004	MW-39-031023	EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423767005	MW-40-031023	SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
60423767006	MW-DUP 3 LEC IAP-031023	SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
60423767008	MWL-L-030723	SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		EPA 200.7	ALH	6	PASI-K
		EPA 200.7	ALH	2	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	2	PASI-K
		SM 2320B	BLA	2	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 3500-Fe B#4	CRN2	1	PASI-K
60423767008	MWL-L-030723	SM 4500-S-2 D	CRN2	1	PASI-K
		SM 5310C	BLA	1	PASI-K
		SM 5310C	BLA	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: EPA 200.7

Description: 200.7 Metals, Dissolved

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: EPA 200.8

Description: 200.8 MET ICPMS, Dissolved

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Sample Preparation:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: SM 2320B

Description: 2320B Alkalinity

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 samples were analyzed for SM 2320B by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: SM 3500-Fe B#4

Description: Iron, Ferrous

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 samples were analyzed for SM 3500-Fe B#4 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.

- MW-37-031023 (Lab ID: 60423767002)
- MW-38-031023 (Lab ID: 60423767003)
- MW-39-031023 (Lab ID: 60423767004)
- MW-40-031023 (Lab ID: 60423767005)
- MW-DUP 3 LEC IAP-031023 (Lab ID: 60423767006)
- MW-K-031023 (Lab ID: 60423767001)
- MWL-L-030723 (Lab ID: 60423767008)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: SM 4500-S-2 D

Description: 4500S2D Sulfide, Total

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 samples were analyzed for SM 4500-S-2 D 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: 836470

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423484001

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

- MS (Lab ID: 3317603)
 - Sulfide, Total
- MSD (Lab ID: 3317604)
 - Sulfide, Total

QC Batch: 836678

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60423617003

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

- MS (Lab ID: 3318133)
 - Sulfide, Total
- MSD (Lab ID: 3318134)
 - Sulfide, Total

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: SM 5310C

Description: 5310C TOC

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 samples were analyzed for SM 5310C by Pace Analytical Services Kansas City. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Method: SM 5310C

Description: 5310C Dissolved Organic Carbon

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 samples were analyzed for SM 5310C 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:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-K-031023	Lab ID: 60423767001	Collected: 03/10/23 11:25	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	3.2	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:50	7439-89-6	
Magnesium, Total Recoverable	70.2	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:50	7439-95-4	
Manganese, Total Recoverable	1.2	mg/L	0.0050	1	03/14/23 09:57	03/22/23 18:50	7439-96-5	
Potassium, Total Recoverable	29.2	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:50	7440-09-7	
Sodium, Total Recoverable	141	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:50	7440-23-5	
Total Hardness by 2340B, Total Recoverable	835	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:50		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.7	mg/L	0.050	1	03/14/23 09:57	03/22/23 20:01	7439-89-6	
Manganese, Dissolved	1.2	mg/L	0.0050	1	03/14/23 09:57	03/22/23 20:01	7439-96-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.048	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:35	7439-93-2	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.055	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:25	7440-38-2	
Molybdenum, Dissolved	0.029	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:25	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO3)	401	mg/L	20.0	1		03/22/23 12:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/22/23 12:43		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1500	mg/L	13.3	1		03/16/23 09:30		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:51	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:31	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.4	mg/L	1.0	1		03/22/23 19:17	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-K-031023	Lab ID: 60423767001	Collected: 03/10/23 11:25	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.8	mg/L	1.0	1		03/22/23 11:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-37-031023	Lab ID: 60423767002	Collected: 03/10/23 09:35	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	3.8	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:57	7439-89-6	
Magnesium, Total Recoverable	22.8	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:57	7439-95-4	
Manganese, Total Recoverable	1.3	mg/L	0.0050	1	03/14/23 09:57	03/22/23 18:57	7439-96-5	
Potassium, Total Recoverable	8.6	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:57	7440-09-7	
Sodium, Total Recoverable	81.3	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:57	7440-23-5	
Total Hardness by 2340B, Total Recoverable	676	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:57		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.8	mg/L	0.050	1	03/14/23 09:57	03/22/23 20:07	7439-89-6	
Manganese, Dissolved	1.3	mg/L	0.0050	1	03/14/23 09:57	03/22/23 20:07	7439-96-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.023	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:42	7439-93-2	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.0034	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:27	7440-38-2	
Molybdenum, Dissolved	0.078	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:27	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	476	mg/L	20.0	1		03/22/23 12:49		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 12:49		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1060	mg/L	10.0	1		03/16/23 09:30		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:49	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:32	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.3	mg/L	1.0	1		03/22/23 19:33	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-37-031023	Lab ID: 60423767002	Collected: 03/10/23 09:35	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	3.5	mg/L	1.0	1		03/22/23 11:50		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-38-031023	Lab ID: 60423767003	Collected: 03/10/23 10:30	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Total Recoverable	3.0	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:59	7439-89-6	
Magnesium, Total Recoverable	67.8	mg/L	0.050	1	03/14/23 09:57	03/22/23 18:59	7439-95-4	
Manganese, Total Recoverable	0.44	mg/L	0.0050	1	03/14/23 09:57	03/22/23 18:59	7439-96-5	
Potassium, Total Recoverable	22.1	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:59	7440-09-7	
Sodium, Total Recoverable	171	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:59	7440-23-5	
Total Hardness by 2340B, Total Recoverable	785	mg/L	0.50	1	03/14/23 09:57	03/22/23 18:59		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Dissolved	2.0	mg/L	0.050	1	03/14/23 09:57	03/22/23 20:10	7439-89-6	
Manganese, Dissolved	0.47	mg/L	0.0050	1	03/14/23 09:57	03/22/23 20:10	7439-96-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Dissolved	0.055	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:44	7439-93-2	
200.8 MET ICPMS, Dissolved		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Dissolved	0.016	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:35	7440-38-2	
Molybdenum, Dissolved	0.076	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:35	7439-98-7	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City						
Alkalinity, Bicarbonate (CaCO ₃)	352	mg/L	20.0	1		03/22/23 13:06		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 13:06		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	1530	mg/L	20.0	1		03/16/23 09:31		
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:50	15438-31-0	H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:32	18496-25-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.4	mg/L	1.0	1		03/22/23 20:19	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-38-031023	Lab ID: 60423767003	Collected: 03/10/23 10:30	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.3	mg/L	1.0	1		03/22/23 12:19		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-39-031023	Lab ID: 60423767004	Collected: 03/10/23 11:20	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	0.60	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:01	7439-89-6	
Magnesium, Total Recoverable	43.8	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:01	7439-95-4	
Manganese, Total Recoverable	2.5	mg/L	0.0050	1	03/14/23 09:57	03/22/23 19:01	7439-96-5	
Potassium, Total Recoverable	24.0	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:01	7440-09-7	
Sodium, Total Recoverable	355	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:01	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1480	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:01		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	0.61	mg/L	0.050	1	03/14/23 09:57	03/22/23 20:12	7439-89-6	
Manganese, Dissolved	2.5	mg/L	0.0050	1	03/14/23 09:57	03/22/23 20:12	7439-96-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.036	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:46	7439-93-2	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.010	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:41	7440-38-2	
Molybdenum, Dissolved	0.23	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:41	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity, Bicarbonate (CaCO ₃)	152	mg/L	20.0	1		03/22/23 13:20		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 13:20		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	3580	mg/L	167	1		03/16/23 09:31		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:50	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:32	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	2.2	mg/L	1.0	1		03/22/23 20:34	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-39-031023	Lab ID: 60423767004	Collected: 03/10/23 11:20	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.9	mg/L	1.0	1		03/22/23 12:34		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-40-031023	Lab ID: 60423767005	Collected: 03/10/23 12:05	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Total Recoverable	6.5	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:03	7439-89-6	
Magnesium, Total Recoverable	43.2	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:03	7439-95-4	
Manganese, Total Recoverable	2.6	mg/L	0.0050	1	03/14/23 09:57	03/22/23 19:03	7439-96-5	
Potassium, Total Recoverable	23.6	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:03	7440-09-7	
Sodium, Total Recoverable	267	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:03	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1320	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:03		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Dissolved	6.5	mg/L	0.050	1	03/14/23 09:57	03/22/23 20:14	7439-89-6	
Manganese, Dissolved	2.6	mg/L	0.0050	1	03/14/23 09:57	03/22/23 20:14	7439-96-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Dissolved	0.042	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:48	7439-93-2	
200.8 MET ICPMS, Dissolved		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Dissolved	0.014	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:43	7440-38-2	
Molybdenum, Dissolved	0.064	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:43	7439-98-7	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City						
Alkalinity,Bicarbonate (CaCO3)	185	mg/L	20.0	1		03/22/23 13:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	20.0	1		03/22/23 13:25		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	2710	mg/L	125	1		03/16/23 09:31		
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:51	15438-31-0	H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:32	18496-25-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.0	mg/L	1.0	1		03/22/23 20:49	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-40-031023	Lab ID: 60423767005	Collected: 03/10/23 12:05	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	1.6	mg/L	1.0	1		03/22/23 13:17		

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-DUP 3 LEC IAP-031023 Lab ID: 60423767006 Collected: 03/10/23 11:25 Received: 03/10/23 17:30 Matrix: Water								
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Total Recoverable	3.7	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:12	7439-89-6	
Magnesium, Total Recoverable	70.3	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:12	7439-95-4	
Manganese, Total Recoverable	1.2	mg/L	0.0050	1	03/14/23 09:57	03/22/23 19:12	7439-96-5	
Potassium, Total Recoverable	29.5	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:12	7440-09-7	
Sodium, Total Recoverable	153	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:12	7440-23-5	
Total Hardness by 2340B, Total Recoverable	862	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:12		
200.7 Metals, Dissolved								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Iron, Dissolved	2.6	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:20	7439-89-6	
Manganese, Dissolved	1.3	mg/L	0.0050	1	03/14/23 09:57	03/22/23 19:20	7439-96-5	
6010 MET ICP, Dissolved								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Dissolved	0.052	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:16	7439-93-2	
200.8 MET ICPMS, Dissolved								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Dissolved	0.056	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:46	7440-38-2	
Molybdenum, Dissolved	0.029	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:46	7439-98-7	
2320B Alkalinity								
Analytical Method: SM 2320B								
Pace Analytical Services - Kansas City								
Alkalinity,Bicarbonate (CaCO ₃)	401	mg/L	20.0	1		03/22/23 13:43		
Alkalinity,Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/22/23 13:43		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1870	mg/L	100	1		03/16/23 09:31		
Iron, Ferrous								
Analytical Method: SM 3500-Fe B#4								
Pace Analytical Services - Kansas City								
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:51	15438-31-0	H6
4500S2D Sulfide, Total								
Analytical Method: SM 4500-S-2 D								
Pace Analytical Services - Kansas City								
Sulfide, Total	<0.050	mg/L	0.050	1		03/15/23 15:32	18496-25-8	
5310C TOC								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Total Organic Carbon	3.2	mg/L	1.0	1		03/22/23 21:05	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MW-DUP 3 LEC IAP-031023 **Lab ID: 60423767006** Collected: 03/10/23 11:25 Received: 03/10/23 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	2.9	mg/L	1.0	1		03/22/23 13:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MWL-L-030723	Lab ID: 60423767008	Collected: 03/07/23 15:10	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Total Recoverable	8.6	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:14	7439-89-6	
Magnesium, Total Recoverable	161	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:14	7439-95-4	
Manganese, Total Recoverable	5.4	mg/L	0.0050	1	03/14/23 09:57	03/22/23 19:14	7439-96-5	
Potassium, Total Recoverable	29.3	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:14	7440-09-7	
Sodium, Total Recoverable	514	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:14	7440-23-5	
Total Hardness by 2340B, Total Recoverable	1990	mg/L	0.50	1	03/14/23 09:57	03/22/23 19:14		
200.7 Metals, Dissolved		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Iron, Dissolved	7.1	mg/L	0.050	1	03/14/23 09:57	03/22/23 19:22	7439-89-6	
Manganese, Dissolved	4.7	mg/L	0.0050	1	03/14/23 09:57	03/22/23 19:22	7439-96-5	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Dissolved	0.076	mg/L	0.010	1	03/14/23 09:57	03/22/23 19:18	7439-93-2	
200.8 MET ICPMS, Dissolved		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Dissolved	0.023	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:49	7440-38-2	
Molybdenum, Dissolved	0.042	mg/L	0.0010	1	03/14/23 09:57	03/21/23 14:49	7439-98-7	
2320B Alkalinity		Analytical Method: SM 2320B Pace Analytical Services - Kansas City						
Alkalinity, Bicarbonate (CaCO ₃)	257	mg/L	20.0	1		03/16/23 14:30		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	20.0	1		03/16/23 14:30		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	3970	mg/L	66.7	1		03/14/23 10:03		
Iron, Ferrous		Analytical Method: SM 3500-Fe B#4 Pace Analytical Services - Kansas City						
Iron, Ferrous	<0.20	mg/L	0.20	1		03/15/23 13:45	15438-31-0	H6
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - Kansas City						
Sulfide, Total	<0.050	mg/L	0.050	1		03/14/23 13:17	18496-25-8	
5310C TOC		Analytical Method: SM 5310C Pace Analytical Services - Kansas City						
Total Organic Carbon	2.9	mg/L	1.0	1		03/22/23 21:20	7440-44-0	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Sample: MWL-L-030723	Lab ID: 60423767008	Collected: 03/07/23 15:10	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C Dissolved Organic Carbon								
Analytical Method: SM 5310C								
Pace Analytical Services - Kansas City								
Dissolved Organic Carbon	9.6	mg/L	5.0	5		03/22/23 13:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD
Pace Project No.: 60423767

QC Batch: 836382 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

METHOD BLANK: 3317424 Matrix: Water
Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hardness, Total(SM 2340B)	mg/L	<0.50	0.50	03/22/23 18:46	
Iron	mg/L	<0.050	0.050	03/22/23 18:46	
Magnesium	mg/L	<0.050	0.050	03/22/23 18:46	
Manganese	mg/L	<0.0050	0.0050	03/22/23 18:46	
Potassium	mg/L	<0.50	0.50	03/22/23 18:46	
Sodium	mg/L	<0.50	0.50	03/22/23 18:46	

LABORATORY CONTROL SAMPLE: 3317425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Hardness, Total(SM 2340B)	mg/L	66.2	64.8	98	85-115	
Iron	mg/L	10	10.1	101	85-115	
Magnesium	mg/L	10	9.8	98	85-115	
Manganese	mg/L	1	0.99	99	85-115	
Potassium	mg/L	10	10.0	100	85-115	
Sodium	mg/L	10	10.2	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317426 3317427

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423767001 Result	Spike Conc.	Spike Conc.	Conc.								
Hardness, Total(SM 2340B)	mg/L	835	66.2	66.2	899	894	96	88	70-130	1	20		
Iron	mg/L	3.2	10	10	13.2	13.2	100	100	70-130	0	20		
Magnesium	mg/L	70.2	10	10	79.8	79.3	96	92	70-130	1	20		
Manganese	mg/L	1.2	1	1	2.2	2.1	98	95	70-130	1	20		
Potassium	mg/L	29.2	10	10	39.4	39.7	102	105	70-130	1	20		
Sodium	mg/L	141	10	10	151	150	104	93	70-130	1	20		

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	836385	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008		

METHOD BLANK: 3317436 Matrix: Water
Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	mg/L	<0.050	0.050	03/22/23 19:57	
Manganese, Dissolved	mg/L	<0.0050	0.0050	03/22/23 19:57	

LABORATORY CONTROL SAMPLE: 3317437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	mg/L	10	10.2	102	85-115	
Manganese, Dissolved	mg/L	1	1.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317438 3317439

Parameter	Units	60423767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	mg/L	2.7	10	10	12.7	13.1	101	104	70-130	3	20	
Manganese, Dissolved	mg/L	1.2	1	1	2.2	2.3	96	102	70-130	3	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	836386	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008		

METHOD BLANK: 3317440 Matrix: Water
Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	mg/L	<0.0010	0.0010	03/21/23 14:19	
Molybdenum, Dissolved	mg/L	<0.0010	0.0010	03/21/23 14:19	

LABORATORY CONTROL SAMPLE: 3317441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	mg/L	0.04	0.038	94	85-115	
Molybdenum, Dissolved	mg/L	0.04	0.039	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317442 3317443

Parameter	Units	60423767002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	mg/L	0.0034	0.04	0.04	0.042	0.042	97	96	70-130	1	20	
Molybdenum, Dissolved	mg/L	0.078	0.04	0.04	0.12	0.12	101	96	70-130	2	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	836383	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008		

METHOD BLANK:	3317428	Matrix:	Water
Associated Lab Samples:	60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium, Dissolved	mg/L	<0.010	0.010	03/22/23 19:31	

LABORATORY CONTROL SAMPLE: 3317429						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium, Dissolved	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317430												3317431	
Parameter	Units	60423767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Lithium, Dissolved	mg/L	0.048	1	1	1.1	1.1	103	104	75-125	1	20		

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch: 836948

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767008

METHOD BLANK: 3319253

Matrix: Water

Associated Lab Samples: 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/16/23 13:11	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/16/23 13:11	

SAMPLE DUPLICATE: 3319255

Parameter	Units	60423617001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	296	295	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3319256

Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	187	188	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	4.6U	ND		10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch: 837865

Analysis Method: SM 2320B

QC Batch Method: SM 2320B

Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767001, 60423767002

METHOD BLANK: 3322151

Matrix: Water

Associated Lab Samples: 60423767001, 60423767002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/22/23 09:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/22/23 09:57	

SAMPLE DUPLICATE: 3322153

Parameter	Units	60423617006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	284	282	0	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3322154

Parameter	Units	60423623004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	697	702	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	837866	Analysis Method:	SM 2320B
QC Batch Method:	SM 2320B	Analysis Description:	2320B Alkalinity
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767003, 60423767004, 60423767005, 60423767006

METHOD BLANK: 3322156 Matrix: Water

Associated Lab Samples: 60423767003, 60423767004, 60423767005, 60423767006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	03/22/23 12:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	20.0	03/22/23 12:56	

SAMPLE DUPLICATE: 3322158

Parameter	Units	60423767003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	352	347	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 3322159

Parameter	Units	60423808006 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity,Bicarbonate (CaCO3)	mg/L	140	138	1	10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch: 836473	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767008

METHOD BLANK: 3317619 Matrix: Water

Associated Lab Samples: 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/14/23 10:03	

LABORATORY CONTROL SAMPLE: 3317620

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

SAMPLE DUPLICATE: 3317621

Parameter	Units	60423767008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3970	4050	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch: 836924

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006

METHOD BLANK: 3319163

Matrix: Water

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/16/23 09:29	

LABORATORY CONTROL SAMPLE: 3319164

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

SAMPLE DUPLICATE: 3319165

Parameter	Units	60423752001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	842	852	1	10	

SAMPLE DUPLICATE: 3319166

Parameter	Units	60423767001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1530	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch: 836684	Analysis Method: SM 3500-Fe B#4
QC Batch Method: SM 3500-Fe B#4	Analysis Description: Iron, Ferrous
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767008

METHOD BLANK: 3318159 Matrix: Water

Associated Lab Samples: 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/15/23 13:40	H6

LABORATORY CONTROL SAMPLE: 3318160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	103	90-110	H6

SAMPLE DUPLICATE: 3318161

Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	0.060U	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	836685	Analysis Method:	SM 3500-Fe B#4
QC Batch Method:	SM 3500-Fe B#4	Analysis Description:	Iron, Ferrous
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006

METHOD BLANK: 3318162 Matrix: Water

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	<0.20	0.20	03/15/23 13:48	H6

LABORATORY CONTROL SAMPLE: 3318163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	2	2.1	103	90-110	H6

SAMPLE DUPLICATE: 3318164

Parameter	Units	60423617013 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	<0.20	<0.20		20	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch: 836470	Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D	Analysis Description: 4500S2D Sulfide, Total
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767008

METHOD BLANK: 3317600 Matrix: Water

Associated Lab Samples: 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/14/23 13:12	

LABORATORY CONTROL SAMPLE: 3317601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3317603 3317604

Parameter	Units	60423484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	0.64	0.5	0.5	0.94	0.94	59	59	75-125	0	20	M1

SAMPLE DUPLICATE: 3317602

Parameter	Units	60423617014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 3317605

Parameter	Units	60423484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.64	0.64	0	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	836678	Analysis Method:	SM 4500-S-2 D
QC Batch Method:	SM 4500-S-2 D	Analysis Description:	4500S2D Sulfide, Total
		Laboratory:	Pace Analytical Services - Kansas City
Associated Lab Samples:	60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006		

METHOD BLANK:	3318131	Matrix:	Water
Associated Lab Samples:	60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	<0.050	0.050	03/15/23 15:24	

LABORATORY CONTROL SAMPLE:	3318132					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	3318133			3318134								
Parameter	Units	60423617003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide, Total	mg/L	<0.050	0.5	0.5	0.26	0.26	51	51	75-125	0	20	M1

SAMPLE DUPLICATE:	3318135					
Parameter	Units	60423617004 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE:	3318136					
Parameter	Units	60423819001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	<0.050		20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	837868	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

METHOD BLANK: 3322165 Matrix: Water

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.0	1.0	03/22/23 10:29	

LABORATORY CONTROL SAMPLE: 3322166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	97	80-120	

MATRIX SPIKE SAMPLE: 3322167

Parameter	Units	60423837001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	25	25.2	87	80-120	

SAMPLE DUPLICATE: 3322168

Parameter	Units	60423837003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	33.5	32.1	4	25	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

QC Batch:	837867	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Dissolved Organic Carbon
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

METHOD BLANK: 3322160 Matrix: Water

Associated Lab Samples: 60423767001, 60423767002, 60423767003, 60423767004, 60423767005, 60423767006, 60423767008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.0	1.0	03/22/23 10:24	

LABORATORY CONTROL SAMPLE: 3322161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	5	4.9	97	80-120	

MATRIX SPIKE SAMPLE: 3322162

Parameter	Units	10645856001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	2.7	5	7.3	92	80-120	

SAMPLE DUPLICATE: 3322163

Parameter	Units	60423767002 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Organic Carbon	mg/L	3.5	3.4	1	25	

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QUALIFIERS

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423767001	MW-K-031023	EPA 200.7	836382	EPA 200.7	836545
60423767002	MW-37-031023	EPA 200.7	836382	EPA 200.7	836545
60423767003	MW-38-031023	EPA 200.7	836382	EPA 200.7	836545
60423767004	MW-39-031023	EPA 200.7	836382	EPA 200.7	836545
60423767005	MW-40-031023	EPA 200.7	836382	EPA 200.7	836545
60423767006	MW-DUP 3 LEC IAP-031023	EPA 200.7	836382	EPA 200.7	836545
60423767008	MWL-L-030723	EPA 200.7	836382	EPA 200.7	836545
60423767001	MW-K-031023	EPA 200.7	836385	EPA 200.7	836551
60423767002	MW-37-031023	EPA 200.7	836385	EPA 200.7	836551
60423767003	MW-38-031023	EPA 200.7	836385	EPA 200.7	836551
60423767004	MW-39-031023	EPA 200.7	836385	EPA 200.7	836551
60423767005	MW-40-031023	EPA 200.7	836385	EPA 200.7	836551
60423767006	MW-DUP 3 LEC IAP-031023	EPA 200.7	836385	EPA 200.7	836551
60423767008	MWL-L-030723	EPA 200.7	836385	EPA 200.7	836551
60423767001	MW-K-031023	EPA 3010	836383	EPA 6010	836548
60423767002	MW-37-031023	EPA 3010	836383	EPA 6010	836548
60423767003	MW-38-031023	EPA 3010	836383	EPA 6010	836548
60423767004	MW-39-031023	EPA 3010	836383	EPA 6010	836548
60423767005	MW-40-031023	EPA 3010	836383	EPA 6010	836548
60423767006	MW-DUP 3 LEC IAP-031023	EPA 3010	836383	EPA 6010	836548
60423767008	MWL-L-030723	EPA 3010	836383	EPA 6010	836548
60423767001	MW-K-031023	EPA 200.8	836386	EPA 200.8	836552
60423767002	MW-37-031023	EPA 200.8	836386	EPA 200.8	836552
60423767003	MW-38-031023	EPA 200.8	836386	EPA 200.8	836552
60423767004	MW-39-031023	EPA 200.8	836386	EPA 200.8	836552
60423767005	MW-40-031023	EPA 200.8	836386	EPA 200.8	836552
60423767006	MW-DUP 3 LEC IAP-031023	EPA 200.8	836386	EPA 200.8	836552
60423767008	MWL-L-030723	EPA 200.8	836386	EPA 200.8	836552
60423767001	MW-K-031023	SM 2320B	837865		
60423767002	MW-37-031023	SM 2320B	837865		
60423767003	MW-38-031023	SM 2320B	837866		
60423767004	MW-39-031023	SM 2320B	837866		
60423767005	MW-40-031023	SM 2320B	837866		
60423767006	MW-DUP 3 LEC IAP-031023	SM 2320B	837866		
60423767008	MWL-L-030723	SM 2320B	836948		
60423767001	MW-K-031023	SM 2540C	836924		
60423767002	MW-37-031023	SM 2540C	836924		
60423767003	MW-38-031023	SM 2540C	836924		
60423767004	MW-39-031023	SM 2540C	836924		
60423767005	MW-40-031023	SM 2540C	836924		
60423767006	MW-DUP 3 LEC IAP-031023	SM 2540C	836924		
60423767008	MWL-L-030723	SM 2540C	836473		
60423767001	MW-K-031023	SM 3500-Fe B#4	836685		
60423767002	MW-37-031023	SM 3500-Fe B#4	836685		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH PONDS CCR ADD

Pace Project No.: 60423767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423767003	MW-38-031023	SM 3500-Fe B#4	836685		
60423767004	MW-39-031023	SM 3500-Fe B#4	836685		
60423767005	MW-40-031023	SM 3500-Fe B#4	836685		
60423767006	MW-DUP 3 LEC IAP-031023	SM 3500-Fe B#4	836685		
60423767008	MWL-L-030723	SM 3500-Fe B#4	836684		
60423767001	MW-K-031023	SM 4500-S-2 D	836678		
60423767002	MW-37-031023	SM 4500-S-2 D	836678		
60423767003	MW-38-031023	SM 4500-S-2 D	836678		
60423767004	MW-39-031023	SM 4500-S-2 D	836678		
60423767005	MW-40-031023	SM 4500-S-2 D	836678		
60423767006	MW-DUP 3 LEC IAP-031023	SM 4500-S-2 D	836678		
60423767008	MWL-L-030723	SM 4500-S-2 D	836470		
60423767001	MW-K-031023	SM 5310C	837868		
60423767002	MW-37-031023	SM 5310C	837868		
60423767003	MW-38-031023	SM 5310C	837868		
60423767004	MW-39-031023	SM 5310C	837868		
60423767005	MW-40-031023	SM 5310C	837868		
60423767006	MW-DUP 3 LEC IAP-031023	SM 5310C	837868		
60423767008	MWL-L-030723	SM 5310C	837868		
60423767001	MW-K-031023	SM 5310C	837867		
60423767002	MW-37-031023	SM 5310C	837867		
60423767003	MW-38-031023	SM 5310C	837867		
60423767004	MW-39-031023	SM 5310C	837867		
60423767005	MW-40-031023	SM 5310C	837867		
60423767006	MW-DUP 3 LEC IAP-031023	SM 5310C	837867		
60423767008	MWL-L-030723	SM 5310C	837867		

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

Revision: 2

Effective Date: 01/12/20

WO#: 60423767



Client Name: Energy

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.4/0.5 Corr. Factor -0.1 Corrected 1.3/0.4

Date and initials of person examining contents: 3/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Extra sample received MWL 03/07/23 @ 1510
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>LT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

April 10, 2023

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

RE: Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423768

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

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

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60423768001	MW-K-031023	Water	03/10/23 11:25	03/10/23 17:30
60423768002	MW-37-031023	Water	03/10/23 09:35	03/10/23 17:30
60423768003	MW-38-031023	Water	03/10/23 10:30	03/10/23 17:30
60423768004	MW-39-031023	Water	03/10/23 11:20	03/10/23 17:30
60423768005	MW-40-031023	Water	03/10/23 12:05	03/10/23 17:30
60423768006	MW-DUP 3 LEC IAP-031023	Water	03/10/23 11:25	03/10/23 17:30
60423768007	MW-M-031023	Water	03/10/23 10:05	03/10/23 17:30
60423768008	MW-C-031024	Water	03/10/23 09:00	03/10/23 17:30
60423768009	MW-106-031025	Water	03/10/23 13:20	03/10/23 17:30
60423768010	MW-L-031023	Water	03/10/23 15:10	03/10/23 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEC PERIMETER ASH POND WELLS C
Pace Project No.: 60423768

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423768001	MW-K-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768002	MW-37-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768003	MW-38-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768004	MW-39-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768005	MW-40-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768006	MW-DUP 3 LEC IAP-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768007	MW-M-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768008	MW-C-031024	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768009	MW-106-031025	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
60423768010	MW-L-031023	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Evergy Kansas Central, Inc.

Date: April 10, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Evergy Kansas Central, Inc.

Date: April 10, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Evergy Kansas Central, Inc.

Date: April 10, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-K-031023 Lab ID: 60423768001 Collected: 03/10/23 11:25 Received: 03/10/23 17:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.319 ± 0.517 (0.899) C:NA T:101%	pCi/L	03/23/23 16:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.444 ± 0.320 (0.611) C:79% T:89%	pCi/L	03/22/23 16:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.763 ± 0.837 (1.51)	pCi/L	03/29/23 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-37-031023 **Lab ID: 60423768002** Collected: 03/10/23 09:35 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.443 (0.920) C:NA T:101%	pCi/L	03/23/23 16:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.579 ± 0.348 (0.632) C:81% T:89%	pCi/L	03/22/23 16:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.579 ± 0.791 (1.55)	pCi/L	03/29/23 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-38-031023 **Lab ID: 60423768003** Collected: 03/10/23 10:30 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.000 ± 0.273 (0.555) C:NA T:94%	pCi/L	03/23/23 16:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.18 ± 0.482 (0.788) C:85% T:89%	pCi/L	03/22/23 16:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.18 ± 0.755 (1.34)	pCi/L	03/29/23 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-39-031023 **Lab ID: 60423768004** Collected: 03/10/23 11:20 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.121 ± 0.335 (0.649) C:NA T:97%	pCi/L	03/23/23 16:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.04 ± 0.443 (0.737) C:87% T:89%	pCi/L	03/22/23 16:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.16 ± 0.778 (1.39)	pCi/L	03/29/23 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-40-031023 **Lab ID: 60423768005** Collected: 03/10/23 12:05 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.515 ± 0.362 (0.175) C:NA T:99%	pCi/L	03/23/23 16:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.03 ± 0.442 (0.737) C:87% T:91%	pCi/L	03/22/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.55 ± 0.804 (0.912)	pCi/L	03/29/23 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-M-031023 **Lab ID: 60423768007** Collected: 03/10/23 10:05 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.169 ± 0.258 (0.153) C:NA T:99%	pCi/L	03/23/23 16:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.497 ± 0.367 (0.719) C:85% T:87%	pCi/L	03/22/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.666 ± 0.625 (0.872)	pCi/L	03/29/23 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-C-031024 **Lab ID: 60423768008** Collected: 03/10/23 09:00 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.227 ± 0.274 (0.418) C:NA T:93%	pCi/L	03/23/23 16:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.170 ± 0.290 (0.633) C:81% T:91%	pCi/L	03/22/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.397 ± 0.564 (1.05)	pCi/L	03/29/23 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Sample: MW-106-031025 **Lab ID: 60423768009** Collected: 03/10/23 13:20 Received: 03/10/23 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.229 ± 0.319 (0.532) C:NA T:101%	pCi/L	03/23/23 16:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.547 ± 0.301 (0.529) C:84% T:102%	pCi/L	03/22/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.776 ± 0.620 (1.06)	pCi/L	03/29/23 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-L-031023 Lab ID: 60423768010 Collected: 03/10/23 15:10 Received: 03/10/23 17:30 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.344 ± 0.278 (0.155) C:NA T:99%	pCi/L	03/23/23 16:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.231 ± 0.346 (0.746) C:80% T:91%	pCi/L	03/22/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.575 ± 0.624 (0.901)	pCi/L	03/29/23 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

QC Batch:	573921	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 60423768001, 60423768002, 60423768003, 60423768004, 60423768005, 60423768006, 60423768007, 60423768008, 60423768009, 60423768010

METHOD BLANK: 2787257 Matrix: Water

Associated Lab Samples: 60423768001, 60423768002, 60423768003, 60423768004, 60423768005, 60423768006, 60423768007, 60423768008, 60423768009, 60423768010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.265 (0.575) C:NA T:99%	pCi/L	03/23/23 16:39	

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: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC PERIMETER ASH POND WELLS C

Pace Project No.: 60423768

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423768001	MW-K-031023	EPA 903.1	573921		
60423768002	MW-37-031023	EPA 903.1	573921		
60423768003	MW-38-031023	EPA 903.1	573921		
60423768004	MW-39-031023	EPA 903.1	573921		
60423768005	MW-40-031023	EPA 903.1	573921		
60423768006	MW-DUP 3 LEC IAP-031023	EPA 903.1	573921		
60423768007	MW-M-031023	EPA 903.1	573921		
60423768008	MW-C-031024	EPA 903.1	573921		
60423768009	MW-106-031025	EPA 903.1	573921		
60423768010	MW-L-031023	EPA 903.1	573921		
60423768001	MW-K-031023	EPA 904.0	573922		
60423768002	MW-37-031023	EPA 904.0	573922		
60423768003	MW-38-031023	EPA 904.0	573922		
60423768004	MW-39-031023	EPA 904.0	573922		
60423768005	MW-40-031023	EPA 904.0	573922		
60423768006	MW-DUP 3 LEC IAP-031023	EPA 904.0	573922		
60423768007	MW-M-031023	EPA 904.0	573922		
60423768008	MW-C-031024	EPA 904.0	573922		
60423768009	MW-106-031025	EPA 904.0	573922		
60423768010	MW-L-031023	EPA 904.0	573922		
60423768001	MW-K-031023	Total Radium Calculation	577235		
60423768002	MW-37-031023	Total Radium Calculation	577235		
60423768003	MW-38-031023	Total Radium Calculation	577235		
60423768004	MW-39-031023	Total Radium Calculation	577235		
60423768005	MW-40-031023	Total Radium Calculation	577235		
60423768006	MW-DUP 3 LEC IAP-031023	Total Radium Calculation	577235		
60423768007	MW-M-031023	Total Radium Calculation	577235		
60423768008	MW-C-031024	Total Radium Calculation	577235		
60423768009	MW-106-031025	Total Radium Calculation	577235		
60423768010	MW-L-031023	Total Radium Calculation	577235		

REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/2

WO#: 60423768



60423768

Client Name: Every

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-296a Type of Ice: (Wet) Blue None

Cooler Temperature (°C): As-read 3.4 Corr. Factor -0.1 Corrected 3.3

Date and initials of person examining contents: 3/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Extra sample received MwL 03/07/23 @ 1510
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>wt</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____



DC#_ Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-
Pittsburgh

Effective Date: 02/03/2023

WO#: 30569776

PM: MAR

Due Date: 04/04/23

Client Name: Pace - KS

CLIENT: PACE_60_LEKS

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 6091 0797 4898

Examined By	<u>PS</u>
Labeled By	<u>PS</u>
Temped By	<u>PS</u>

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

Thermometer Used: _____ Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	<u>1002221</u>	_____
Chain of Custody Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1.
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2.
Chain of Custody Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		9.
Correct Containers Used: -Pace Containers Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		10.
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		11.
Orthophosphate field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		12.
Hex Cr Aqueous samples field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		13.
Organic Samples checked for dechlorination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		14.
Filtered volume received for dissolved tests:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		15.
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		16.
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>PS</u> Lot# of added Preservative	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		17.
624.1: Headspace in VOA Vials (0mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		18.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>PS</u> Date: <u>3/14/23</u>	Survey Meter SN: <u>1563</u>

Comments:

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

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: JDZ
Date: 3/16/2023
Batch ID: 71990
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2787257
MB concentration:	0.000
M/B Counting Uncertainty:	0.265
MB MDC:	0.575
MB Numerical Performance Indicator:	0.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS71990	LCSD71990
Count Date:	3/23/2023	
Spike I.D.:	21-040	
Spike Concentration (pCi/mL):	32.419	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.656	
Target Conc. (pCi/L, g, F):	4.939	
Uncertainty (Calculated):	0.232	
Result (pCi/L, g, F):	4.118	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.850	
Numerical Performance Indicator:	-1.83	
Percent Recovery:	83.37%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	133%	
Lower % Recovery Limits:	73%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/10/2023	
Sample I.D.	70248069025	
Sample MS I.D.	70248069027	
Sample MSD I.D.	70248069028	
Spike I.D.:	21-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.419	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.651	
MS Target Conc. (pCi/L, g, F):	9.966	
MSD Aliquot (L, g, F):	0.651	
MSD Target Conc. (pCi/L, g, F):	9.954	
MS Spike Uncertainty (calculated):	0.468	
MSD Spike Uncertainty (calculated):	0.468	
Sample Result:	0.499	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.309	
Sample Matrix Spike Result:	8.626	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.195	
Sample Matrix Spike Duplicate Result:	9.456	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.230	
MS Numerical Performance Indicator:	-2.730	
MSD Numerical Performance Indicator:	-1.445	
MS Percent Recovery:	81.55%	
MSD Percent Recovery:	89.99%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	136%	
MS/MSD Lower % Recovery Limits:	71%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	70248069025	
Sample MS I.D.	70248069027	
Sample MSD I.D.	70248069028	
Sample Matrix Spike Result:	8.626	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.195	
Sample Matrix Spike Duplicate Result:	9.456	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.230	
Duplicate Numerical Performance Indicator:	-0.949	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	9.84%	
MS/MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	32%	

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

Comments:

JDZ
3/24/23

GDH
3/23/23
Page 26 of 27



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: ZPC
Date: 3/17/2023
Worklist: 71991
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2787259	
MB concentration:	0.105	
M/B 2 Sigma CSU:	0.291	
MB MDC:	0.654	
MB Numerical Performance Indicator:	0.71	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCST71991	LCSD71991
Count Date:	3/22/2023	
Spike I.D.:	22-040	
Decay Corrected Spike Concentration (pCi/mL):	33.157	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.803	
Target Conc. (pCi/L, g, F):	4.129	
Uncertainty (Calculated):	0.202	
Result (pCi/L, g, F):	3.315	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.771	
Numerical Performance Indicator:	-2.00	
Percent Recovery:	80.28%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	3/10/2023	
Sample I.D.	70248069025	
Sample MS I.D.	70248069027	
Sample MSD I.D.	70248069028	
Spike I.D.:	22-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	33.290	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.809	
MS Target Conc.(pCi/L, g, F):	8.233	
MSD Aliquot (L, g, F):	0.807	
MSD Target Conc. (pCi/L, g, F):	8.251	
MS Spike Uncertainty (calculated):	0.403	
MSD Spike Uncertainty (calculated):	0.404	
Sample Result:	0.204	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.290	
Sample Matrix Spike Result:	6.298	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.342	
Sample Matrix Spike Duplicate Result:	6.380	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.370	
MS Numerical Performance Indicator:	-2.930	
MSD Numerical Performance Indicator:	-2.789	
MS Percent Recovery:	74.02%	
MSD Percent Recovery:	74.86%	
MS Status vs Numerical Indicator:	Warning	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:		
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	70248069025	
Sample MS I.D.	70248069027	
Sample MSD I.D.	70248069028	
Sample Matrix Spike Result:	6.298	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.342	
Sample Matrix Spike Duplicate Result:	6.380	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.370	
Duplicate Numerical Performance Indicator:	-0.084	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	1.12%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

Comments:

VAL
3/23/23

March 27, 2023

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

RE: Project: LEC INACTIVE ASH POND
Pace Project No.: 60423781

Dear Jake Humphrey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Kansas City

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

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SAMPLE SUMMARY

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60423781001	MW-K-031023	Water	03/10/23 11:25	03/10/23 17:30
60423781002	MW-37-031023	Water	03/10/23 09:35	03/10/23 17:30
60423781003	MW-38-031023	Water	03/10/23 10:30	03/10/23 17:30
60423781004	MW-39-031023	Water	03/10/23 11:20	03/10/23 17:30
60423781005	MW-40-031023	Water	03/10/23 12:05	03/10/23 17:30
60423781006	MW-DUP 3 LEC-031023	Water	03/10/23 11:25	03/10/23 17:30
60423781008	MW-L-031023	Water	03/10/23 15:10	03/10/23 17:30
60423781010	EQUIPMENT BLANK	Water	03/10/23 13:30	03/10/23 17:30

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60423781001	MW-K-031023	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781002	MW-37-031023	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781003	MW-38-031023	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781004	MW-39-031023	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781005	MW-40-031023	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781006	MW-DUP 3 LEC-031023	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781008	MW-L-031023	EPA 200.7	ALH	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K
		SM 2540C	MLD	1	PASI-K
		SM 4500-H+B	BLA	1	PASI-K
		EPA 300.0	CRN2	3	PASI-K
60423781010	EQUIPMENT BLANK	EPA 200.7	ALH	3	PASI-K
		EPA 6010	ALH	1	PASI-K
		EPA 200.8	MA1	3	PASI-K

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

8 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Method: EPA 6010

Description: 6010 MET ICP

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

8 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:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Method: EPA 200.8

Description: 200.8 MET ICPMS

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

8 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:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 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: 836928

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

- DUP (Lab ID: 3319183)
- Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

7 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.

- MW-37-031023 (Lab ID: 60423781002)
- MW-38-031023 (Lab ID: 60423781003)
- MW-39-031023 (Lab ID: 60423781004)
- MW-40-031023 (Lab ID: 60423781005)
- MW-DUP 3 LEC-031023 (Lab ID: 60423781006)
- MW-K-031023 (Lab ID: 60423781001)
- MW-L-031023 (Lab ID: 60423781008)

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Method: EPA 300.0

Description: 300.0 IC Anions 28 Days

Client: Evergy Kansas Central, Inc.

Date: March 27, 2023

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-K-031023	Lab ID: 60423781001	Collected: 03/10/23 11:25		Received: 03/10/23 17:30		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Barium, Total Recoverable	0.047	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:27	7440-39-3	
Boron, Total Recoverable	2.2	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:27	7440-42-8	
Calcium, Total Recoverable	231	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:27	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.048	mg/L	0.010	1	03/16/23 09:10	03/22/23 21:14	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.066	mg/L	0.0010	1	03/16/23 09:10	03/21/23 14:59	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 14:59	7440-48-4	
Molybdenum, Total Recoverable	0.029	mg/L	0.0010	1	03/16/23 09:10	03/21/23 14:59	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	1690	mg/L	66.7	1		03/16/23 09:31		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		03/16/23 09:09		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	164	mg/L	20.0	20		03/20/23 19:09	16887-00-6	
Fluoride	3.0	mg/L	0.20	1		03/20/23 18:56	16984-48-8	
Sulfate	623	mg/L	100	100		03/22/23 01:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-37-031023	Lab ID: 60423781002	Collected: 03/10/23 09:35		Received: 03/10/23 17:30		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Barium, Total Recoverable	0.081	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:33	7440-39-3	
Boron, Total Recoverable	1.7	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:33	7440-42-8	
Calcium, Total Recoverable	230	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:33	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.024	mg/L	0.010	1	03/16/23 09:10	03/22/23 21:21	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.0046	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:02	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:02	7440-48-4	
Molybdenum, Total Recoverable	0.075	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:02	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	1170	mg/L	40.0	1		03/16/23 09:31		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.1	Std. Units	0.10	1		03/16/23 09:04		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	50.2	mg/L	20.0	20		03/20/23 19:36	16887-00-6	
Fluoride	<0.20	mg/L	0.20	1		03/20/23 19:23	16984-48-8	
Sulfate	290	mg/L	20.0	20		03/20/23 19:36	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-38-031023	Lab ID: 60423781003	Collected: 03/10/23 10:30	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Barium, Total Recoverable	0.051	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:35	7440-39-3	
Boron, Total Recoverable	4.4	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:35	7440-42-8	
Calcium, Total Recoverable	204	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:35	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.054	mg/L	0.010	1	03/16/23 09:10	03/22/23 21:23	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.030	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:10	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:10	7440-48-4	
Molybdenum, Total Recoverable	0.074	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:10	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	2370	mg/L	66.7	1		03/16/23 09:31		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		03/16/23 09:06		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	120	mg/L	10.0	10		03/22/23 01:26	16887-00-6	
Fluoride	3.3	mg/L	0.20	1		03/20/23 19:49	16984-48-8	
Sulfate	595	mg/L	100	100		03/22/23 01:39	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-39-031023	Lab ID: 60423781004	Collected: 03/10/23 11:20	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Barium, Total Recoverable	0.031	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:38	7440-39-3	
Boron, Total Recoverable	4.3	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:38	7440-42-8	
Calcium, Total Recoverable	534	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:38	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.039	mg/L	0.010	1	03/16/23 09:10	03/22/23 21:25	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.0099	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:15	7440-38-2	
Cobalt, Total Recoverable	0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:15	7440-48-4	
Molybdenum, Total Recoverable	0.23	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:15	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	3970	mg/L	143	1		03/16/23 09:31		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/16/23 09:07		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	387	mg/L	50.0	50		03/21/23 20:45	16887-00-6	
Fluoride	0.50	mg/L	0.20	1		03/20/23 11:43	16984-48-8	
Sulfate	1580	mg/L	200	200		03/21/23 21:52	14808-79-8	M1

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-40-031023	Lab ID: 60423781005	Collected: 03/10/23 12:05		Received: 03/10/23 17:30		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Barium, Total Recoverable	0.034	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:40	7440-39-3	
Boron, Total Recoverable	3.6	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:40	7440-42-8	
Calcium, Total Recoverable	452	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:40	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.045	mg/L	0.010	1	03/16/23 09:10	03/22/23 21:27	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.013	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:18	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:18	7440-48-4	
Molybdenum, Total Recoverable	0.061	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:18	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	2780	mg/L	100	1		03/16/23 09:32		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.3	Std. Units	0.10	1		03/16/23 09:12		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	255	mg/L	20.0	20		03/20/23 13:16	16887-00-6	
Fluoride	1.1	mg/L	0.20	1		03/20/23 13:02	16984-48-8	
Sulfate	1260	mg/L	200	200		03/21/23 22:32	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-DUP 3 LEC-031023	Lab ID: 60423781006	Collected: 03/10/23 11:25	Received: 03/10/23 17:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	0.047	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:48	7440-39-3	
Boron, Total Recoverable	2.2	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:48	7440-42-8	
Calcium, Total Recoverable	226	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:48	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	0.050	mg/L	0.010	1	03/16/23 09:10	03/22/23 20:57	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	0.063	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:20	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:20	7440-48-4	
Molybdenum, Total Recoverable	0.028	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:20	7439-98-7	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Pace Analytical Services - Kansas City								
Total Dissolved Solids	1530	mg/L	66.7	1		03/16/23 09:33		
4500H+ pH, Electrometric								
Analytical Method: SM 4500-H+B								
Pace Analytical Services - Kansas City								
pH at 25 Degrees C	7.6	Std. Units	0.10	1		03/16/23 09:10		H6
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0								
Pace Analytical Services - Kansas City								
Chloride	143	mg/L	20.0	20		03/20/23 14:09	16887-00-6	
Fluoride	3.0	mg/L	0.20	1		03/20/23 13:56	16984-48-8	
Sulfate	529	mg/L	100	100		03/21/23 22:45	14808-79-8	

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Sample: MW-L-031023	Lab ID: 60423781008	Collected: 03/10/23 15:10		Received: 03/10/23 17:30		Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - Kansas City						
Barium, Total Recoverable	0.042	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:51	7440-39-3	
Boron, Total Recoverable	2.3	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:51	7440-42-8	
Calcium, Total Recoverable	533	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:51	7440-70-2	
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Kansas City						
Lithium, Total Recoverable	0.085	mg/L	0.010	1	03/16/23 09:10	03/22/23 20:59	7439-93-2	
200.8 MET ICPMS		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Kansas City						
Arsenic, Total Recoverable	0.026	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:23	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:23	7440-48-4	
Molybdenum, Total Recoverable	0.047	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:23	7439-98-7	
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Kansas City						
Total Dissolved Solids	4280	mg/L	167	1		03/16/23 09:33		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B Pace Analytical Services - Kansas City						
pH at 25 Degrees C	7.2	Std. Units	0.10	1		03/16/23 09:13		H6
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Pace Analytical Services - Kansas City						
Chloride	608	mg/L	200	200		03/23/23 13:20	16887-00-6	
Fluoride	1.8	mg/L	0.20	1		03/23/23 12:00	16984-48-8	
Sulfate	1890	mg/L	200	200		03/23/23 13:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: EQUIPMENT BLANK Lab ID: 60423781010 Collected: 03/10/23 13:30 Received: 03/10/23 17:30 Matrix: Water								
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Pace Analytical Services - Kansas City								
Barium, Total Recoverable	<0.0050	mg/L	0.0050	1	03/16/23 09:10	03/22/23 20:53	7440-39-3	
Boron, Total Recoverable	<0.10	mg/L	0.10	1	03/16/23 09:10	03/22/23 20:53	7440-42-8	
Calcium, Total Recoverable	0.30	mg/L	0.20	1	03/16/23 09:10	03/22/23 20:53	7440-70-2	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Pace Analytical Services - Kansas City								
Lithium, Total Recoverable	<0.010	mg/L	0.010	1	03/16/23 09:10	03/22/23 21:01	7439-93-2	
200.8 MET ICPMS								
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8								
Pace Analytical Services - Kansas City								
Arsenic, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:26	7440-38-2	
Cobalt, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:26	7440-48-4	
Molybdenum, Total Recoverable	<0.0010	mg/L	0.0010	1	03/16/23 09:10	03/21/23 15:26	7439-98-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch:	836892	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008, 60423781010

METHOD BLANK:	3319057	Matrix:	Water
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Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008, 60423781010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	mg/L	<0.0050	0.0050	03/22/23 20:23	
Boron	mg/L	<0.10	0.10	03/22/23 20:23	
Calcium	mg/L	<0.20	0.20	03/22/23 20:23	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	1	1.0	104	85-115	
Boron	mg/L	1	0.99	99	85-115	
Calcium	mg/L	10	10.4	104	85-115	

Parameter	Units	60423781001		3319059		3319060		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Barium	mg/L	0.047	1	1	1.1	1.1	103	104	70-130	1	20
Boron	mg/L	2.2	1	1	3.2	3.2	100	105	70-130	1	20
Calcium	mg/L	231	10	10	240	243	93	122	70-130	1	20

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch:	836894	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:	60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008, 60423781010		

METHOD BLANK:	3319065	Matrix:	Water
Associated Lab Samples:	60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008, 60423781010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.0010	0.0010	03/21/23 14:54	
Cobalt	mg/L	<0.0010	0.0010	03/21/23 14:54	
Molybdenum	mg/L	<0.0010	0.0010	03/21/23 14:54	

LABORATORY CONTROL SAMPLE: 3319066						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.04	0.038	95	85-115	
Cobalt	mg/L	0.04	0.039	96	85-115	
Molybdenum	mg/L	0.04	0.040	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3319067												3319068	
Parameter	Units	60423781002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Arsenic	mg/L	0.0046	0.04	0.04	0.043	0.044	96	98	70-130	2	20		
Cobalt	mg/L	<0.0010	0.04	0.04	0.037	0.038	92	94	70-130	3	20		
Molybdenum	mg/L	0.075	0.04	0.04	0.11	0.12	99	103	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch:	836893	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008, 60423781010

METHOD BLANK: 3319061 Matrix: Water

Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008, 60423781010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lithium	mg/L	<0.010	0.010	03/22/23 21:10	

LABORATORY CONTROL SAMPLE: 3319062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3319063 3319064

Parameter	Units	60423781001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.048	1	1	1.1	1.1	105	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch: 836924

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004

METHOD BLANK: 3319163

Matrix: Water

Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/16/23 09:29	

LABORATORY CONTROL SAMPLE: 3319164

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

SAMPLE DUPLICATE: 3319165

Parameter	Units	60423752001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	842	852	1	10	

SAMPLE DUPLICATE: 3319166

Parameter	Units	60423767001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1530	2	10	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch: 836928	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781005, 60423781006, 60423781008

METHOD BLANK: 3319180 Matrix: Water

Associated Lab Samples: 60423781005, 60423781006, 60423781008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<5.0	5.0	03/16/23 09:31	

LABORATORY CONTROL SAMPLE: 3319181

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

SAMPLE DUPLICATE: 3319182

Parameter	Units	60423781005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2780	2650	5	10	

SAMPLE DUPLICATE: 3319183

Parameter	Units	60423804001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3500	2840	21	10 D6	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch: 836668

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781001, 60423781002, 60423781003, 60423781004, 60423781005, 60423781006, 60423781008

SAMPLE DUPLICATE: 3318093

Parameter	Units	60423512001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch:	837290	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781001, 60423781002, 60423781003

METHOD BLANK: 3320643 Matrix: Water
Associated Lab Samples: 60423781001, 60423781002, 60423781003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/20/23 09:33	
Fluoride	mg/L	<0.20	0.20	03/20/23 09:33	
Sulfate	mg/L	<1.0	1.0	03/20/23 09:33	

METHOD BLANK: 3322668 Matrix: Water
Associated Lab Samples: 60423781001, 60423781002, 60423781003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/23 12:58	
Fluoride	mg/L	<0.20	0.20	03/21/23 12:58	
Sulfate	mg/L	<1.0	1.0	03/21/23 12:58	

LABORATORY CONTROL SAMPLE: 3320644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 3322669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3320645 3320646

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60423972001 Result	Spike Conc.	Spike Conc.	Result						
Chloride	mg/L	74.5	100	100	169	163	94	89	80-120	3	15
Fluoride	mg/L	<0.20	2.5	2.5	2.1	2.1	85	86	80-120	1	15
Sulfate	mg/L	81.2	100	100	186	178	105	97	80-120	4	15

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch:	837291	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781004, 60423781005, 60423781006

METHOD BLANK: 3320647 Matrix: Water
Associated Lab Samples: 60423781004, 60423781005, 60423781006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/20/23 10:09	
Fluoride	mg/L	<0.20	0.20	03/20/23 10:09	
Sulfate	mg/L	<1.0	1.0	03/20/23 10:09	

METHOD BLANK: 3322665 Matrix: Water
Associated Lab Samples: 60423781004, 60423781005, 60423781006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/21/23 12:58	
Fluoride	mg/L	<0.20	0.20	03/21/23 12:58	
Sulfate	mg/L	<1.0	1.0	03/21/23 12:58	

LABORATORY CONTROL SAMPLE: 3320648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	93	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 3322666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	5	4.8	97	90-110	

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

QC Batch: 838049

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60423781008

METHOD BLANK: 3322852

Matrix: Water

Associated Lab Samples: 60423781008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/23/23 08:36	
Fluoride	mg/L	<0.20	0.20	03/23/23 08:36	
Sulfate	mg/L	<1.0	1.0	03/23/23 08:36	

METHOD BLANK: 3325376

Matrix: Water

Associated Lab Samples: 60423781008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.0	1.0	03/24/23 16:18	
Fluoride	mg/L	<0.20	0.20	03/24/23 16:18	
Sulfate	mg/L	<1.0	1.0	03/24/23 16:18	

LABORATORY CONTROL SAMPLE: 3322853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	96	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

LABORATORY CONTROL SAMPLE: 3325377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.2	104	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	5	5.4	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3322854

3322855

Parameter	Units	60423781008		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Chloride	mg/L	608	1000	1000	1570	1570	96	97	80-120	0	15		
Fluoride	mg/L	1.8	2.5	2.5	4.3	4.5	101	108	80-120	4	15		
Sulfate	mg/L	1890	1000	1000	2930	2900	104	101	80-120	1	15		

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QUALITY CONTROL DATA

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

MATRIX SPIKE SAMPLE:		3322856		60424067003		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits				
Chloride	mg/L	537	500	1080	108	80-120				
Fluoride	mg/L	ND	25	26.4	106	80-120				
Sulfate	mg/L	216	500	791	115	80-120				

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QUALIFIERS

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60423781001	MW-K-031023	EPA 200.7	836892	EPA 200.7	836972
60423781002	MW-37-031023	EPA 200.7	836892	EPA 200.7	836972
60423781003	MW-38-031023	EPA 200.7	836892	EPA 200.7	836972
60423781004	MW-39-031023	EPA 200.7	836892	EPA 200.7	836972
60423781005	MW-40-031023	EPA 200.7	836892	EPA 200.7	836972
60423781006	MW-DUP 3 LEC-031023	EPA 200.7	836892	EPA 200.7	836972
60423781008	MW-L-031023	EPA 200.7	836892	EPA 200.7	836972
60423781010	EQUIPMENT BLANK	EPA 200.7	836892	EPA 200.7	836972
60423781001	MW-K-031023	EPA 3010	836893	EPA 6010	836974
60423781002	MW-37-031023	EPA 3010	836893	EPA 6010	836974
60423781003	MW-38-031023	EPA 3010	836893	EPA 6010	836974
60423781004	MW-39-031023	EPA 3010	836893	EPA 6010	836974
60423781005	MW-40-031023	EPA 3010	836893	EPA 6010	836974
60423781006	MW-DUP 3 LEC-031023	EPA 3010	836893	EPA 6010	836974
60423781008	MW-L-031023	EPA 3010	836893	EPA 6010	836974
60423781010	EQUIPMENT BLANK	EPA 3010	836893	EPA 6010	836974
60423781001	MW-K-031023	EPA 200.8	836894	EPA 200.8	836975
60423781002	MW-37-031023	EPA 200.8	836894	EPA 200.8	836975
60423781003	MW-38-031023	EPA 200.8	836894	EPA 200.8	836975
60423781004	MW-39-031023	EPA 200.8	836894	EPA 200.8	836975
60423781005	MW-40-031023	EPA 200.8	836894	EPA 200.8	836975
60423781006	MW-DUP 3 LEC-031023	EPA 200.8	836894	EPA 200.8	836975
60423781008	MW-L-031023	EPA 200.8	836894	EPA 200.8	836975
60423781010	EQUIPMENT BLANK	EPA 200.8	836894	EPA 200.8	836975
60423781001	MW-K-031023	SM 2540C	836924		
60423781002	MW-37-031023	SM 2540C	836924		
60423781003	MW-38-031023	SM 2540C	836924		
60423781004	MW-39-031023	SM 2540C	836924		
60423781005	MW-40-031023	SM 2540C	836928		
60423781006	MW-DUP 3 LEC-031023	SM 2540C	836928		
60423781008	MW-L-031023	SM 2540C	836928		
60423781001	MW-K-031023	SM 4500-H+B	836668		
60423781002	MW-37-031023	SM 4500-H+B	836668		
60423781003	MW-38-031023	SM 4500-H+B	836668		
60423781004	MW-39-031023	SM 4500-H+B	836668		
60423781005	MW-40-031023	SM 4500-H+B	836668		
60423781006	MW-DUP 3 LEC-031023	SM 4500-H+B	836668		
60423781008	MW-L-031023	SM 4500-H+B	836668		
60423781001	MW-K-031023	EPA 300.0	837290		
60423781002	MW-37-031023	EPA 300.0	837290		
60423781003	MW-38-031023	EPA 300.0	837290		
60423781004	MW-39-031023	EPA 300.0	837291		
60423781005	MW-40-031023	EPA 300.0	837291		
60423781006	MW-DUP 3 LEC-031023	EPA 300.0	837291		
60423781008	MW-L-031023	EPA 300.0	838049		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEC INACTIVE ASH POND

Pace Project No.: 60423781

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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REPORT OF LABORATORY ANALYSIS

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

Revision: 2

Effective Date: 01/12/20

WO#: 60423781



Client Name: Energy

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-296 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 0.7 Corr. Factor 0.1 Corrected 0.6

Date and initials of person examining contents: 3/11

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>3/11</u>	<u>3/10/23 1730 CLT</u>
Chain of Custody relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Samples arrived within holding time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>Inactive Ash Pond @ 3/10/23</u>	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-K-031023 @ 1125</u>	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-37-031023 @ 0935</u>	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-38-031023 @ 1030</u>	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-39-031023 @ 1120</u>	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-40-031023 @ 1205</u>	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-Dup 3 LEC IAP 031023 @ 1125</u>	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-M-031023 @ 1005</u>	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-C-031024 @ 0900 lot 3-13-23</u>	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Mw-106-031026 @ 1326</u>	
Samples contain multiple phases? Matrix: <u>LT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>2 SPIN For Equipment 15/20</u>	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: <u>67187</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.	
Cyanide water sample checks:			
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

