FRNP-RPT-0413/V2

C-746-U Contained Landfill
Second Quarter Calendar Year 2026
(April–June)
Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky

FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC

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C-746-U Contained Landfill
Second Quarter Calendar Year 2026
(April–June)
Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky

Date Issued—August 2026

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC,
managing the
Deactivation and Remediation Project at the
Paducah Gaseous Diffusion Plant
under Contract DE-EM0004895

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ACRONYMS

CFR	*Code of Federal Regulations*
KAR	*Kentucky Administrative Regulations*
KDWM	Kentucky Division of Waste Management
KRS	*Kentucky Revised Statutes*
LEL	lower explosive limit
LRGA	Lower Regional Gravel Aquifer
LTL	lower tolerance limit
MCL	maximum contaminant level
MW	monitoring well
RGA	Regional Gravel Aquifer
UCRS	Upper Continental Recharge System
URGA	Upper Regional Gravel Aquifer
UTL	upper tolerance limit

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1. INTRODUCTION

This report, *C-746-U Contained Landfill Second Quarter Calendar Year 2026 (April–June) Compliance Monitoring Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, is being submitted in accordance with Solid Waste Permit No. SW07300014, SW07300015, SW07300045.

The Groundwater, Surface Water, Leachate, and Methane Monitoring Sample Data Reporting Form is provided in Appendix A. The facility information sheet is provided in Appendix B. Groundwater analytical results are presented in groundwater sample analyses tables and laboratory reports, which are presented in Appendix C. The statistical analyses and qualification statement are provided in Appendix D. The groundwater flow rate and direction determinations are provided in Appendix E. Appendix F contains the notifications for all permit required parameters whose concentrations exceed the maximum contaminant level (MCL) for Kentucky solid waste facilities provided in 401 *KAR* 47:030 § 6, *Maximum Groundwater Contaminant Levels*, and for all permit required parameters listed in 40 *CFR* § 302.4, Appendix A, *Sequential CAS Registry Number List of CERCLA Hazardous Substances*, that do not have an MCL and whose concentrations exceed the historical background concentrations [upper tolerance limit (UTL), or both UTL and lower tolerance limit (LTL) for pH, as established at a 95% confidence]. Appendix G provides a chart of MCL and historical background UTL exceedances that have occurred, beginning in the third quarter, calendar year 2002. Methane monitoring results are documented on the approved C-746-U Landfill Methane Monitoring Report form provided in Appendix H. The form includes pertinent remarks/observations as required by 401 *KAR* 48:090 § 5, *Explosive Gases Control*. Surface water analyses are provided in Appendix I. Analytical laboratory certification is provided in Appendix J. Laboratory analytical methods used to analyze the included data set are provided in Appendix K. Micro-purging stability parameter results are provided in Appendix L.

1.1 BACKGROUND

The C-746-U Contained Landfill is an operating solid waste landfill located north of the Paducah Gaseous Diffusion Plant and north of the C-746-S&T Landfills. Construction and operation of the C-746-U Contained Landfill were permitted in November 1996. The operation is regulated under Solid Waste Landfill Permit No. SW07300014, SW07300015, SW07300045. The permitted C-746-U Contained Landfill area covers about 60 acres and includes a liner and leachate collection system. The C-746-U Contained Landfill currently is operating in Phases 4, 5, 6, and 7. A minor permit modification that included upgrades to the leachate storage capacity for Phases 6 and 7 was approved by the Kentucky Division of Waste Management (KDWM) on May 21, 2021 (FRNP 2021). Phases 1, 2, and 3 have long-term cover. Phases 8 through 23 have not been constructed.

1.2 MONITORING PERIOD ACTIVITIES

1.2.1 Groundwater Monitoring

Three zones are monitored at the site: the Upper Continental Recharge System (UCRS), the Upper Regional Gravel Aquifer (URGA), and the Lower Regional Gravel Aquifer (LRGA). There are 21 monitoring wells (MWs) under permit for the C-746-U Contained Landfill: nine UCRS wells, six URGA wells, and six LRGA wells. A map of the MW locations is presented in Figure 1. All MWs were sampled this quarter, with the exception of MW359, MW368, MW376, and MW377 (screened in the UCRS), which had insufficient amounts of water to obtain samples; therefore, there are no laboratory analysis results for these locations.

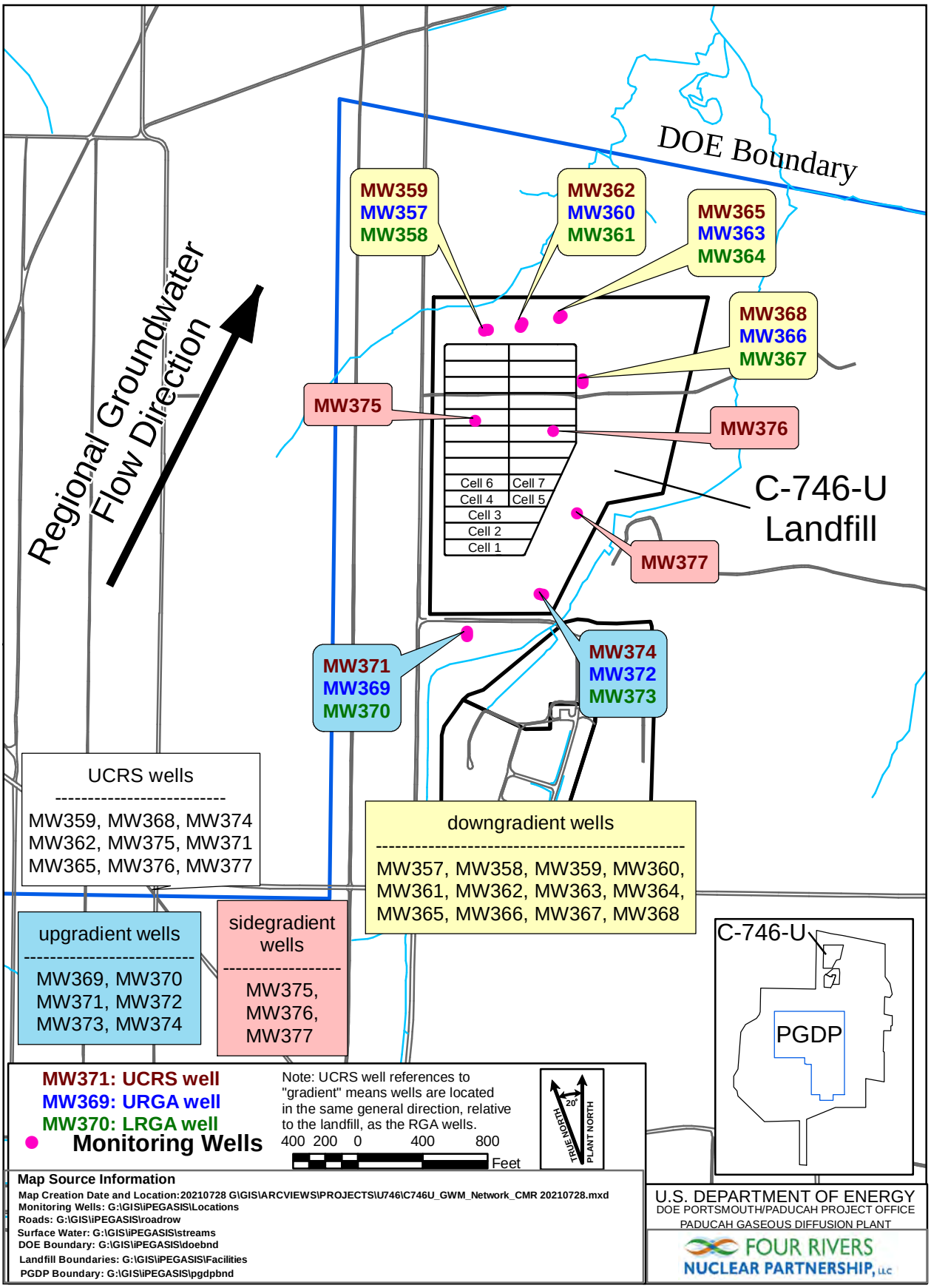

Figure 1. C-746-U Landfill Groundwater Monitoring Well Network

Consistent with the approved *Groundwater Monitoring Plan for the Solid Waste Permitted Landfills (C-746-S Residential Landfill, C-746-T Inert Landfill, and C-746-U Contained Landfill) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, (Groundwater Monitoring Plan) UCRS wells are included in the monitoring program (LATA Kentucky 2014). Groundwater flow gradients are downward through the UCRS, but flow in the underlying Regional Gravel Aquifer (RGA) is lateral. Groundwater flow in the RGA typically is in a northeasterly direction in the vicinity of the C-746-U Contained Landfill. The Ohio River and lower reaches of Little Bayou Creek are the discharge areas for the RGA flow system from the vicinity of the landfills.

Consistent with the conceptual site model, the constituent concentrations in UCRS wells are considered to be representative only of the conditions local to the well or sourced from overlying soils; thus, no discussion of potential "upgradient" sources is relevant to the discussion for the UCRS. Nevertheless, a UTL or LTL for pH only, for background also has been calculated for UCRS wells using concentrations from UCRS wells located in the same direction (relative to the landfill) as those RGA wells identified as upgradient. The results from these wells are considered to represent historical "background" for UCRS water quality. Similarly, other gradient references for UCRS wells are identified using the same gradient references (relative to the landfill) that are attributed to nearby RGA wells. Results from UCRS wells are compared to this UTL and exceedances of these values are reported in the quarterly report.

Groundwater sampling was conducted within the second quarter 2026 in accordance with the Groundwater Monitoring Plan (LATA Kentucky 2014) using the Deactivation and Remediation Contractor procedure CP4-ES-2101, *Groundwater Sampling*. Groundwater sampling for the second quarter 2026 was conducted on April 14–16, 2026. The analytical laboratory used U.S. Environmental Protection Agency-approved methods, as applicable. Appropriate sample containers and preservatives were used. The parameters specified in Permit Condition GSTR0001, Special Condition 1, were analyzed for all locations sampled.

The groundwater flow rate and direction determination are provided in Appendix E. Depth-to-water was measured on April 21, 2026, in MWs of the C-746-U Contained Landfill (see Appendix E, Table E.1), in MWs of the C-746-S&T Landfills, and in MWs of the surrounding region (shown on Appendix E, Figure E.4). Water level measurements in 39 vicinity wells define the potentiometric surface for the RGA. Typical regional flow in the RGA is northeastward, toward the Ohio River. The hydraulic gradient for the RGA in the vicinity of the C-746-U Contained Landfill in April 2026 was 4.22×10^{-4} ft/ft (see Appendix E, Table E.2). The hydraulic gradients for the URGA and LRGA at the C-746-U Contained Landfill were 8.39×10^{-4} ft/ft and 8.12×10^{-4} ft/ft, respectively (see Appendix E, Table E.2). Calculated groundwater flow rates (average linear velocity) at the C-746-U Contained Landfill range from 1.43 to 2.43 ft/day for the URGA and 1.38 to 2.35 ft/day for the LRGA (see Appendix E, Table E.3).

1.2.2 Methane Monitoring

Methane monitoring was conducted in accordance with 401 *KAR* 48:090 § 5 and the approved Explosive Gas Monitoring Program (KEEC 2011), which is Technical Application Attachment 12 of the Solid Waste Permit. Industrial Hygiene staff monitored for the occurrence of methane in four on-site building locations and four locations along the landfill boundary on May 18, 2026. Appendix H provides a map of the monitoring locations (Appendix H, Figure H.1). Monitoring results identified that all locations were compliant with the regulatory requirement of < 100% lower explosive limit (LEL) at boundary locations and < 25% LEL at all other locations. The results are documented on the C-746-U Contained Landfill Methane Monitoring Report provided in Appendix H.

1.2.3 Surface Water Monitoring

Surface water was monitored, as specified in 401 *KAR* 48:300 § 2, *Surface Water Monitoring Plan*, and the approved *Surface Water Monitoring Plan for C-746-U and C-746-S&T Landfills Permit Number SW07300014, SW07300015, SW07300045, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Agency Interest Number 3059* (FRNP 2021), which is Technical Application Attachment 24 of the Solid Waste Permit. Surface water sampling was performed at three locations at the C-746-U Contained Landfill (Figure 2). Sampling of instream location L150 was performed on April 29, 2026. Instream location L154 and downstream location L351 were sampled on April 17, 2026. Surface water results are provided in Appendix I.

1.3 KEY RESULTS

Groundwater data were evaluated in accordance with the approved Groundwater Monitoring Plan (LATA Kentucky 2014), which is Technical Application Attachment 25 of the Solid Waste Permit. For the current reporting quarter, there were no parameters that exceeded their respective MCLs. If there had been any MCL exceedances, they would have been listed in Table 1. Those constituents that exceeded their respective MCL would have been evaluated further against their historical background UTL. Table 2 identifies parameters (that do not have MCLs) with concentrations that exceeded the statistically derived historical background UTL during the second quarter 2026, as well as parameters that exceeded their MCL and also exceeded their historical background UTL.[1] Those constituents (present in downgradient wells) that exceed their historical background UTL were evaluated against their current UTL- or LTL-derived background using the most recent eight quarters of data from wells considered to be background. Constituents in downgradient wells that exceeded current background UTL or LTL are shown on Table 3.

Table 1. Summary of MCL Exceedances

UCRS	URGA	LRGA
None	None	None

A notification of MCL exceedances, or lack of exceedances, was submitted electronically to KDWM, in accordance with 401 *KAR* 48:300 § 7, *Sampling and Analysis*, prior to the submittal of this report. There were no MCL exceedances in the current reporting quarter.

Any constituent that exceeded the MCL in downgradient wells would be subjected to a comparison against the UTL concentration calculated using historical concentrations from wells identified as background (Table 2).

This report is the notification of parameters that had statistically significant increased concentrations relative to historical background concentrations, as required by Permit No. SW07300014, SW07300015, SW07300045, Condition GSTR0001, Standard Requirement 5, and 401 *KAR* 48:300 § 7.

[1] The UTL comparison for pH uses a two-sided test for both UTLs and LTLs. For the purposes of this report, the reference to "UTL exceedances" also includes the LTL for pH.

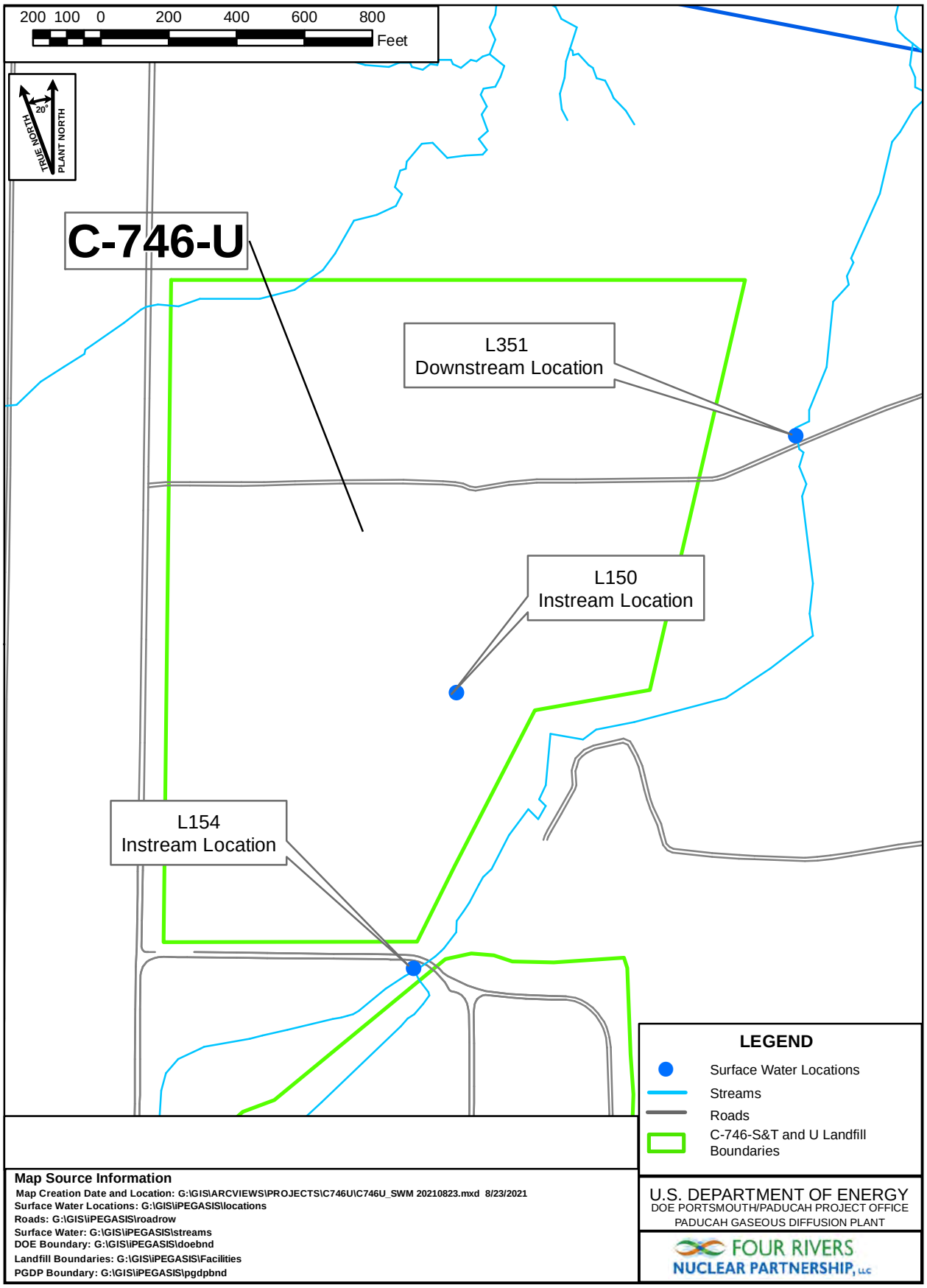

Figure 2. C-746-U Landfill Surface Water Monitoring Locations

Table 2. Exceedances of Statistically Derived Historical Background Concentrations

UCRS[a]	URGA	LRGA
MW362: Dissolved oxygen, oxidation-reduction potential,[b] and sulfate	MW357: Oxidation-reduction potential[b]	MW358: Oxidation-reduction potential[b]
MW365: Dissolved oxygen, oxidation-reduction potential,[b] and sulfate	MW360: Oxidation-reduction potential[b]	MW361: Dissolved oxygen, oxidation-reduction potential,[b] and technetium-99
MW371: Dissolved oxygen and oxidation-reduction potential[b]	MW363: Oxidation-reduction potential[b]	MW364: Oxidation-reduction potential[b] and technetium-99
MW374: Oxidation-reduction potential[b] and sulfate	MW366: Oxidation-reduction potential[b] and technetium-99	MW367: Oxidation-reduction potential[b] and pH
MW375: Oxidation-reduction potential[b] and sulfate	MW369: Oxidation-reduction potential[b]	MW370: Dissolved oxygen and oxidation-reduction potential[b]
	MW372: Calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,[b] and sulfate	MW373: Calcium, dissolved solids, magnesium, and oxidation-reduction potential[b]

[a] Gradients in the UCRS are downward. UCRS gradient designations are identified using the same gradient reference (relative to the landfill) that is attributed to nearby RGA wells.
[b] Oxidation-reduction potential calibrated as Eh.
Sidegradient wells: MW375, MW376, MW377. Downgradient wells: MW357, MW358, MW359, MW360, MW361, MW362, MW363, MW364, MW365, MW366, MW367, MW368. Upgradient wells: MW369, MW370, MW371, MW372, MW373, MW374.

The constituents that had exceedances of the statistically derived historical background UTL underwent additional statistical evaluation. The current quarter concentrations were compared to the current background UTLs that were developed using the most recent eight quarters of data from wells identified as background in order to determine if the current downgradient (compliance) well concentrations are consistent with current background values. Table 3 summarizes the evaluation against current background UTL for those constituents present in downgradient RGA wells with historical UTL exceedances. In accordance with the approved Groundwater Monitoring Plan, constituents in downgradient wells that exceed the historical UTL, but do not exceed the current UTL, are considered not to have a C-746-U Landfill source; therefore, they are Type 1 exceedances—not attributable to the C-746-U Landfill. Except for technetium-99 in LRGA wells MW361 and MW364, all UTL exceedances reported for this quarter were evaluated and considered to be Type 1 exceedances—not attributable to the C-746-U Landfill.

Table 3. Exceedances of Current Background UTL in Downgradient RGA Wells

URGA	LRGA
None	MW361: Technetium-99
	MW364: Technetium-99

Technetium-99 in downgradient LRGA wells MW361 and MW364 exceeded both the historical background UTL and the current background UTL; therefore, these results are preliminarily considered to be Type 2 exceedances. To evaluate the preliminary Type 2 exceedances further, these parameter/MW pairs were subjected to the Mann-Kendall statistical test for trends using the most recent eight quarters of data. The results are summarized in Table 4. No trend was indicated for the preliminary Type 2 exceedances in LRGA wells MW361 and MW364, and are thus considered to be Type 1 exceedances—not attributable to the C-746-U Landfill.

Table 4. C-746-U Landfills Downgradient Wells Trend Summary Utilizing the Previous Eight Quarters

Location	Well ID	Parameter	Sample Size	Alpha[a]	P-value[b]	S[c]	Decision[d]
C-746-U Landfill	MW361	Technetium-99	8	0.05	0.089	12	No trend
C-746-U Landfill	MW364	Technetium-99	8	0.05	0.089	-12	No trend

[a] An alpha of 0.05 represents a 95% confidence interval.
[b] The p-value represents the risk of acceptance of the H_a hypothesis of a trend, in terms of a percentage.
[c] The initial value of the Mann-Kendall statistic, S, is assumed to be 0 (e.g., no trend). If a data value from a later time period is higher than a data value from an earlier time period, S is incremented by 1. On the other hand, if the data value from a later time period is lower than a data value sampled earlier, S is decremented by 1. The net result of all such increments and decrements yields the final value of S. A very high positive value of S is an indicator of an increasing trend, and a very low negative value indicates a decreasing trend.
[d] The Mann-Kendall decision operates on two hypotheses; the H_0 and H_a. H_0 assumes there is no trend in the data, whereas H_a assumes either a positive or negative trend.
NOTE: Statistics were generated using ProUCL.

The statistical evaluation of UCRS concentrations against the current UCRS background UTL identified exceedances of both the historical and current backgrounds for dissolved oxygen and sulfate in MW365 (Table 5). Because gradients in the UCRS are downward (vertical), there are no hydrogeologically downgradient UCRS wells.

Table 5. Exceedances of Current Background UTL in Downgradient UCRS Wells*

UCRS
MW365: Dissolved oxygen and sulfate

*In the same direction (relative to the landfill) as RGA wells.

All UTL exceedances reported for this quarter were evaluated and considered to be Type 1 exceedances—not attributable to the C-746-U Contained Landfill.

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2. DATA EVALUATION/STATISTICAL SYNOPSIS

The statistical analyses conducted on the second quarter 2026 groundwater data collected from the C-746-U Contained Landfill MWs were performed in accordance with the Groundwater Monitoring Plan (LATA Kentucky 2014). The statistical analyses for this report use data from the first eight quarters that were sampled for each parameter, beginning with the baseline sampling events in 2002, when available. The sampling dates associated with background data are listed next to the result in the statistical analysis sheets in Appendix D (Attachments D1 and D2).

If parameters that exceed the MCL for Kentucky solid waste facilities found in 401 *KAR* 47:030 § 6 were detected, they were documented and evaluated further. MCL exceedances, if found, were reviewed against historical background results (UTL). If the MCL exceedance was found not to exceed the historical UTL, the exceedance was noted as a Type 1 exceedance—an exceedance not attributable to the C-746-U Contained Landfill. If there was an exceedance of the MCL in a downgradient well and this constituent also exceeded the historical background, the quarterly result was compared to the current background UTL (developed using the most recent eight quarters of data from wells identified as background) to identify if this exceedance is attributable to upgradient/nonlandfill sources. If the downgradient concentration was less than the current background, the exceedance was noted as a Type 1 exceedance. If a constituent exceeds its Kentucky solid waste facility MCL, historical background UTL, and current background UTL, it was reported as a Type 2 exceedance—source undetermined. Type 2 exceedances (undetermined source) were evaluated further using the Mann-Kendall test for trend. If there was no statistically significant increasing trend for a constituent in a downgradient well, the exceedance was reclassified as a Type 1 exceedance (not attributable to the C-746-U Contained Landfill).

For those parameters that do not have a Kentucky solid waste facility MCL, the same process was used. If a constituent without an MCL exceeded its historical background UTL and its current background UTL, it was evaluated further to identify the source of the exceedance, if possible. If the source of the exceedance could not be identified, it was reported as a Type 2 exceedance—source undetermined. Type 2 exceedances (undetermined source) were evaluated further using the Mann-Kendall test for trend. If there was no statistically significant increasing trend (or decreasing trend for pH) for a constituent in a downgradient well, the exceedance was reclassified as a Type 1 exceedance (not attributable to the C-746-U Contained Landfill).

To calculate the UTL, the data were divided into censored (nondetects) and uncensored (detected) observations. The one-sided tolerance interval statistical test was conducted only on parameters that had at least one uncensored observation. Results of the one-sided tolerance interval statistical test were used to determine whether the data showed a statistical exceedance in concentrations with respect to historical background concentrations (UTL).

For the statistical analysis of pH, a two-sided tolerance interval statistical test was conducted. The test well results were compared to both a UTL and LTL to determine if statistically significant deviations in concentrations existed with respect to background well data.

A stepwise list of the one-sided tolerance interval statistical procedures applied to the data is provided in Appendix D under Statistical Analysis Process. The statistical analysis was conducted separately for each parameter in each well. The MWs included in the statistical analyses are listed in Table 6.

Table 6. Monitoring Wells Included in Statistical Analysis[a]

UCRS	URGA	LRGA
MW359[b]	MW357	MW358
MW362	MW360	MW361
MW365	MW363	MW364
MW368[b]	MW366	MW367
MW371[c]	MW369 (background)	MW370 (background)
MW374[c]	MW372 (background)	MW373 (background)
MW375		
MW376[b]		
MW377[b]		

[a] Map showing the MW locations is shown on Figure 1.
[b] Well had insufficient water to permit a water sample for laboratory analysis.
[c] In the same direction (relative to the landfill) as RGA wells considered to be upgradient.

2.1 STATISTICAL ANALYSIS OF GROUNDWATER DATA

Parameters requiring statistical analysis are summarized in Appendix D for each hydrogeological unit. A stepwise list for determining exceedances of statistically derived historical background concentrations is provided in Appendix D under Statistical Analysis Process. A comparison of the current quarter's results to the statistically derived historical background was conducted for parameters that do not have MCLs and also for those parameters whose concentrations exceed MCLs. Appendix G summarizes the occurrences (by well and by quarter) of historical UTLs and MCL exceedances. The constituents that had exceedances of the statistically derived historical background UTL underwent additional statistical evaluation. The current quarter concentrations were compared to the current background UTL developed using the most recent eight quarters of data from wells identified as upgradient in order to determine if the current downgradient concentrations are consistent with current background values.

2.1.1 Upper Continental Recharge System

In this quarter, 24 parameters, including those with MCLs, required statistical analysis in the UCRS. During the second quarter, dissolved oxygen, oxidation-reduction potential, and sulfate displayed concentrations that exceeded their respective historical UTL and are listed in Table 2. Current background UTL exceedances for dissolved oxygen and sulfate were observed in downgradient UCRS well MW365 and are listed on Table 5.

2.1.2 Upper Regional Gravel Aquifer

In this quarter, 25 parameters, including those with MCLs, required statistical analysis in the URGA. During the second quarter, calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, sulfate, and technetium-99 displayed concentrations that exceeded their respective historical UTL and are listed in Table 2. There were no parameters that exceeded the current background UTL in downgradient URGA wells.

2.1.3 Lower Regional Gravel Aquifer

In this quarter, 25 parameters, including those with MCLs, required statistical analysis in the LRGA. During the second quarter, calcium, dissolved oxygen, dissolved solids, magnesium, oxidation-reduction potential, pH, and technetium-99 displayed concentrations that exceeded their respective historical UTL and are listed in Table 2. Technetium-99 exceeded the current background UTL in downgradient LRGA wells MW361 and MW364 (Table 3).

2.2 DATA VERIFICATION AND VALIDATION

Data verification is the process of comparing a data set against a set standard or contractual requirements. In accordance with the approved Groundwater Monitoring Plan (LATA Kentucky 2014), data are flagged as necessary.

Data validation was performed on 100% of the organic, inorganic, and radiochemical analytical data for groundwater by a qualified individual independent from sampling, laboratory, project management, or other decision-making personnel. Data validation evaluates the laboratory adherence to analytical method requirements. Validation codes are added by the independent validator and not the laboratory. Validation codes are shown on the data report in Appendix C.

Field quality control samples are collected during each sampling event. Field blanks, rinseate blanks, and trip blanks are obtained to ensure quality of field and laboratory practices and data are reported in the Groundwater Sample Analysis forms in Appendix C. Laboratory quality control samples, such as matrix spikes, matrix spike duplicates, and method blanks, are performed by the laboratory. Both field and laboratory quality control sample results are reviewed as part of the data verification/validation process. Data verification and validation results for this data set indicated that all data were considered usable.

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3. PROFESSIONAL GEOLOGIST AUTHORIZATION

DOCUMENT IDENTIFICATION: *C-746-U Contained Landfill Second Quarter Calendar Year 2026 (April–June) Compliance Monitoring Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (FRNP-RPT-0413/V2)

Stamped and signed pursuant to my authority as a duly registered geologist under the provisions of *KRS* Chapter 322A.

Kenneth R. Davis
Kentucky Board of Registration for Professional Geologists
PG 113927
Registered Professional Geologist

PG 113927
KD 8-17-26

Kenneth R. Davis
Kenneth R. Davis

PG113927

August 17, 2026
Date

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4. REFERENCES

FRNP (Four Rivers Nuclear Partnership, LLC) 2021. *Surface Water Monitoring Plan for C-746-U and C-746-S&T Landfills Permit Number SW07300014, SW07300015, SW07300045, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Agency Interest Number 3059*, Solid Waste Landfill Permit No. SW07300014, SW07300015, SW07300045, Technical Application Attachment 24, Four Rivers Nuclear Partnership, LLC, Paducah, KY, March.

KEEC (Kentucky Energy and Environment Cabinet) 2011. Solid Waste Landfill Permit No. SW07300014, SW07300015, SW07300045, Division of Waste Management, Solid Waste Branch, Technical Application Attachment 12, "Explosive Gas Monitoring Program," January 21.

LATA Kentucky (LATA Environmental Services of Kentucky, LLC) 2014. *Groundwater Monitoring Plan for the Solid Waste Permitted Landfills (C-746-S Residential Landfill, C-746-T Inert Landfill, and C-746-U Contained Landfill) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky*, PAD-PROJ-0139, Solid Waste Landfill Permit No. SW07300014, SW07300015, SW07300045, Technical Application Attachment 25, LATA Environmental Services of Kentucky, LLC, Kevil, KY, June.

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APPENDIX A

GROUNDWATER, SURFACE WATER, LEACHATE, AND METHANE MONITORING SAMPLE DATA REPORTING FORM

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GROUNDWATER, SURFACE WATER, LEACHATE, AND METHANE MONITORING SAMPLE DATA REPORTING FORM

NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
SOLID WASTE BRANCH
14 REILLY ROAD
FRANKFORT, KY 40601

Facility Name: U.S. DOE–Paducah Gaseous Diffusion Plant (As officially shown on DWM Permit Face) Activity: C-746-U Contained Landfill

Permit No: SW07300014, SW07300015, SW07300045 Finds/Unit No: _____ Quarter & Year 2nd Qtr. CY 2026

Please check the following as applicable:

_____ Characterization X Quarterly _____ Semiannual _____ Annual _____ Assessment

Please check applicable submittal(s): X Groundwater X Surface Water

_____ Leachate X Methane Monitoring

This form is to be utilized by those sites required by regulation (Kentucky Waste Management Regulations-401 *KAR* 48:300 and 45:160) or by statute (Kentucky Revised Statues Chapter 224) to conduct groundwater and surface water monitoring under the jurisdiction of the Division of Waste Management. **You must report any indication of contamination within forty-eight (48) hours of making the determination using statistical analyses, direct comparison, or other similar techniques. Submitting the lab report is NOT considered notification.** Instructions for completing the form are attached. Do not submit the instruction pages.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations.

MYRNA REDFIELD (Affiliate) Digitally signed by MYRNA REDFIELD (Affiliate) Date: 2026.08.19 14:44:59 -05'00'

Myrna E. Redfield, Program Manager/Date
Four Rivers Nuclear Partnership, LLC

APRIL LADD Digitally signed by APRIL LADD Date: 2026.08.24 16:14:33 -05'00'

April Ladd, Acting Deputy Manager, Portsmouth/Paducah Project Office/Date
U.S. Department of Energy

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APPENDIX B

FACILITY INFORMATION SHEET

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FACILITY INFORMATION SHEET

Sampling Date: Groundwater: April 2026
Surface water: April 2026
Methane: May 2026 County: McCracken Permit Nos. SW07300014, SW07300015, SW07300045

Facility Name: U.S. DOE—Paducah Gaseous Diffusion Plant
(As officially shown on DWM Permit Face)

Site Address: 5600 Hobbs Road (Street) Kevil, Kentucky (City/State) 42053 (Zip)

Phone No: (270) 441-6800 Latitude: N 37° 07' 45" Longitude: W 88° 47' 55"

OWNER INFORMATION

Facility Owner: U.S. DOE, Erik Olds, Acting Manager
Portsmouth/Paducah Project Office Phone No: (859) 219-4000

Contact Person: Myrna E. Redfield Phone No: (270) 441-5113

Contact Person Title: Program Manager/Chief Executive Officer
Four Rivers Nuclear Partnership, LLC

Mailing Address: 5511 Hobbs Road (Street) Kevil, Kentucky (City/State) 42053 (Zip)

SAMPLING PERSONNEL
(IF OTHER THAN LANDFILL OR LABORATORY)

Company: Four Rivers Nuclear Partnership, LLC

Contact Person: Chris Skinner Phone No: (270) 441-5675

Mailing Address: 5511 Hobbs Road (Street) Kevil, Kentucky (City/State) 42053 (Zip)

LABORATORY RECORD #1

Laboratory GEL Laboratories, LLC Lab ID No: KY90129

Contact Person: Valerie Davis Phone No: (843) 769-7391

Mailing Address: 2040 Savage Road (Street) Charleston, South Carolina (City/State) 29407 (Zip)

LABORATORY RECORD #2

Laboratory: N/A Lab ID No: N/A

Contact Person: N/A Phone No: N/A

Mailing Address: N/A (Street) City/State Zip

LABORATORY RECORD #3

Laboratory: N/A Lab ID No: N/A

Contact Person: N/A Phone No: N/A

Mailing Address: N/A (Street) City/State Zip

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APPENDIX C

GROUNDWATER SAMPLE ANALYSES AND LABORATORY REPORTS

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Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW357 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4798 **SAMPLE ID:** MW357UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.37	mg/L		0.2	/	SW846-9056A		=
Chloride	32.4	mg/L		1	/	SW846-9056A		=
Fluoride	0.159	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.33	mg/L		0.5	/	SW846-9056A		=
Sulfate	34.4	mg/L		2	/	SW846-9056A		=
Barometric Pressure Reading	30.02	Inches/Hg			/	FS		X
Conductivity	424	µmhos/cm			/	FS		X
Depth to Water	45.88	ft			/	FS		X
Dissolved Oxygen	4.23	mg/L			/	FS		X
Eh (approx)	529.2	mV			/	FS		X
pH	5.99	Std Unit			/	FS		X
Temperature	67.5	deg F			/	FS		X
Turbidity	4.04	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0739	mg/L	N	0.004	/	SW846-6020B		J
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.317	mg/L		0.03	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	25.2	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000814	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	10.5	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	1.61	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	41.9	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00349	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0763	mg/L	N	0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
PCB-1221	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
PCB-1232	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
PCB-1242	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
PCB-1248	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
PCB-1254	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
PCB-1260	0.0971	ug/L	U	0.0971	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW357 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4798 **SAMPLE ID:** MW357UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
Polychlorinated biphenyl	0.0971	ug/L	U	0.0971	/	SW846-8082A		=
Radium-226	0.365	pCi/L	U	0.448	0.348 / 0.349	AN-1418		=
Radium-228	4.06	pCi/L	U	4.54	2.93 / 3.12	EPA-904.0-M		=
Strontium-90	-1.49	pCi/L	U	4.17	1.98 / 1.98	EPA-905.0-M		=
Tritium	105	pCi/L	U	229	134 / 136	EPA-906.0-M	U,J	=
Technetium-99	36.7	pCi/L		14.4	10.5 / 11.3	HASL 300, Tc-02-RC M		=
Thorium-230	0.452	pCi/L	U	1.55	0.917 / 0.923	HASL 300, Th-01-RC M		=
Thorium-232	-0.0712	pCi/L	U	1.05	0.427 / 0.428	HASL 300, Th-01-RC M		=
Alpha activity	6.2	pCi/L	U	7.95	5.4 / 5.51	SW846-9310		=
Beta activity	42.9	pCi/L		14.2	11.2 / 13.3	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.93	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW357 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4798 **SAMPLE ID:** MW357UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	2.05	ug/L		1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	224	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	HUN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	7.9	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.564	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW358 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4799 **SAMPLE ID:** MW358UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.271	mg/L		0.2	/	SW846-9056A		=
Chloride	22.6	mg/L		1	/	SW846-9056A		=
Fluoride	0.216	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.1	mg/L	U	0.1	/	SW846-9056A		=
Sulfate	36.6	mg/L		2	/	SW846-9056A		=
Barometric Pressure Reading	30.01	Inches/Hg			/	FS		X
Conductivity	475	µmhos/cm			/	FS		X
Depth to Water	46.04	ft			/	FS		X
Dissolved Oxygen	1.4	mg/L			/	FS		X
Eh (approx)	174.4	mV			/	FS		X
pH	6.18	Std Unit			/	FS		X
Temperature	65.1	deg F			/	FS		X
Turbidity	5.54	NTU			/	FS		X
Aluminum	0.0214	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.0049	mg/L	J	0.005	/	SW846-6020B		=
Barium	0.0816	mg/L	N	0.004	/	SW846-6020B		J
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.236	mg/L		0.075	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	31.3	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.0256	mg/L		0.001	/	SW846-6020B		=
Copper	0.00106	mg/L	J	0.002	/	SW846-6020B		=
Iron	8.56	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	15.4	mg/L	N	0.03	/	SW846-6020B		J
Manganese	2.22	mg/L		0.25	/	SW846-6020B		=
Molybdenum	0.000472	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.0531	mg/L		0.002	/	SW846-6020B		=
Potassium	2.85	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	33.4	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.01	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0792	mg/L	N	0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1221	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1232	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1242	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1248	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1254	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1260	0.0963	ug/L	U	0.0963	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW358 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4799 **SAMPLE ID:** MW358UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
Polychlorinated biphenyl	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
Radium-226	0.511	pCi/L	U	1.25	0.779 / 0.78	AN-1418		=
Radium-228	2.19	pCi/L	U	4.95	2.89 / 2.95	EPA-904.0-M		=
Strontium-90	-0.371	pCi/L	U	3.52	1.71 / 1.71	EPA-905.0-M		=
Tritium	-68.7	pCi/L	U	228	108 / 108	EPA-906.0-M	U,J	=
Technetium-99	29.9	pCi/L		14.5	10.1 / 10.7	HASL 300, Tc-02-RC M		=
Thorium-230	-0.436	pCi/L	U	1.76	0.487 / 0.488	HASL 300, Th-01-RC M		=
Thorium-232	-0.186	pCi/L	U	1.43	0.497 / 0.498	HASL 300, Th-01-RC M		=
Alpha activity	9.84	pCi/L		7.42	6.05 / 6.26	SW846-9310		=
Beta activity	21.1	pCi/L		10.8	8.11 / 8.82	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.98	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW358 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4799 **SAMPLE ID:** MW358UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.9	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	226	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	HUN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	3.75	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	2.71	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW360 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4800 **SAMPLE ID:** MW360UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	6.18	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.212	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.843	mg/L		0.4	/	SW846-9056A		=
Sulfate	10.3	mg/L		0.4	/	SW846-9056A		=
Barometric Pressure Reading	30.02	Inches/Hg			/	FS		X
Conductivity	406	µmhos/cm			/	FS		X
Depth to Water	39.2	ft			/	FS		X
Dissolved Oxygen	1.81	mg/L			/	FS		X
Eh (approx)	502.4	mV			/	FS		X
pH	6.13	Std Unit			/	FS		X
Temperature	61.4	deg F			/	FS		X
Turbidity	5.76	NTU			/	FS		X
Aluminum	0.0682	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.199	mg/L	N	0.004	/	SW846-6020B		J
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0197	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	18.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.000546	mg/L	J	0.001	/	SW846-6020B		=
Copper	0.00218	mg/L		0.002	/	SW846-6020B		=
Iron	0.0904	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	7.74	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.00503	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.0012	mg/L	J	0.002	/	SW846-6020B		=
Potassium	0.68	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.00197	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	62.8	mg/L		0.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.0053	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.182	mg/L	N	0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1221	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1232	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1242	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1248	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1254	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1260	0.1	ug/L	U	0.1	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW360 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4800 **SAMPLE ID:** MW360UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.1	ug/L	U	0.1	/	SW846-8082A		=
Polychlorinated biphenyl	0.1	ug/L	U	0.1	/	SW846-8082A		=
Radium-226	0.175	pCi/L	U	0.517	0.31 / 0.31	AN-1418		=
Radium-228	2.15	pCi/L	U	4.73	2.77 / 2.83	EPA-904.0-M		=
Strontium-90	-2.01	pCi/L	U	3.9	1.63 / 1.63	EPA-905.0-M		UJ
Tritium	71.4	pCi/L	U	227	129 / 130	EPA-906.0-M	U,J	=
Technetium-99	8.16	pCi/L	U	14.7	8.8 / 8.85	HASL 300, Tc-02-RC M		=
Thorium-230	-0.378	pCi/L	U	1.63	0.456 / 0.457	HASL 300, Th-01-RC M		=
Thorium-232	0.145	pCi/L	U	1.11	0.626 / 0.627	HASL 300, Th-01-RC M		=
Alpha activity	3.42	pCi/L	U	6.93	4.18 / 4.22	SW846-9310		=
Beta activity	5.33	pCi/L	U	13.2	7.74 / 7.79	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0187	ug/L	U	0.0187	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.77	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW360 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4800 **SAMPLE ID:** MW360UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.47	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	226	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	HUN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	3.79	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.02	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361DUG3-26 **Sample Type:** FR **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.471	mg/L		0.2	/	SW846-9056A		=
Chloride	39.7	mg/L		1	/	SW846-9056A		=
Fluoride	0.156	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.37	mg/L		0.5	/	SW846-9056A		=
Sulfate	80.9	mg/L		2	/	SW846-9056A		=
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0492	mg/L	N	0.004	/	SW846-6020B		J
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.242	mg/L		0.03	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	33.4	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000884	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	14.7	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.00127	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	2.29	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	43.3	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0532	mg/L	N	0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1221	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1232	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1242	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1248	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1254	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1260	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1268	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
Polychlorinated biphenyl	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
Radium-226	-0.0732	pCi/L	U	0.825	0.309 / 0.31	AN-1418		=
Radium-228	1.25	pCi/L	U	4.79	2.65 / 2.67	EPA-904.0-M		=
Strontium-90	1.67	pCi/L	U	4.13	2.4 / 2.41	EPA-905.0-M		=
Tritium	22	pCi/L	U	228	122 / 122	EPA-906.0-M	U,J	=
Technetium-99	41.8	pCi/L		14.5	10.8 / 11.8	HASL 300, Tc-02-RC M		J
Thorium-230	-0.169	pCi/L	U	1.46	0.602 / 0.602	HASL 300, Th-01-RC M		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361DUG3-26 **Sample Type:** FR **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Thorium-232	-0.16	pCi/L	U	0.98	0.32 / 0.321	HASL 300, Th-01-RC M		=
Alpha activity	-1.12	pCi/L	U	7.51	2.82 / 2.82	SW846-9310		=
Beta activity	41.5	pCi/L		12.4	10.3 / 12.3	SW846-9310		J
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.78	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	288	mg/L		10	/	EPA-160.1		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361DUG3-26 **Sample Type:** FR **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	HUN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	6.24	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.686	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.468	mg/L		0.2	/	SW846-9056A		=
Chloride	39.1	mg/L		1	/	SW846-9056A		=
Fluoride	0.157	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.35	mg/L		0.5	/	SW846-9056A		=
Sulfate	79	mg/L		2	/	SW846-9056A		=
Barometric Pressure Reading	30.02	Inches/Hg			/	FS		X
Conductivity	516	µmhos/cm			/	FS		X
Depth to Water	38.43	ft			/	FS		X
Dissolved Oxygen	4.51	mg/L			/	FS		X
Eh (approx)	541.7	mV			/	FS		X
pH	5.93	Std Unit			/	FS		X
Temperature	60.9	deg F			/	FS		X
Turbidity	4	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0473	mg/L	N	0.004	/	SW846-6020B		J
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.243	mg/L		0.03	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	32.6	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000897	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	14.6	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	2.23	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	42.8	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0501	mg/L	N	0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
PCB-1221	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
PCB-1232	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
PCB-1242	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
PCB-1248	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
PCB-1254	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
PCB-1260	0.0957	ug/L	U	0.0957	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
Polychlorinated biphenyl	0.0957	ug/L	U	0.0957	/	SW846-8082A		=
Radium-226	0.407	pCi/L	U	0.465	0.366 / 0.367	AN-1418		=
Radium-228	2.46	pCi/L	U	4.93	2.93 / 3	EPA-904.0-M		=
Strontium-90	0.387	pCi/L	U	3.05	1.61 / 1.61	EPA-905.0-M		=
Tritium	-18.9	pCi/L	U	217	109 / 109	EPA-906.0-M		=
Technetium-99	59.6	pCi/L		15.9	12.5 / 14.2	HASL 300, Tc-02-RC M		J
Thorium-230	-0.325	pCi/L	U	1.53	0.438 / 0.44	HASL 300, Th-01-RC M		=
Thorium-232	0.039	pCi/L	U	1.36	0.635 / 0.636	HASL 300, Th-01-RC M		=
Alpha activity	1.26	pCi/L	U	8.71	4.33 / 4.34	SW846-9310		=
Beta activity	25.5	pCi/L		9.82	8.16 / 9.19	SW846-9310		J
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.93	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.38	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	283	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	9.82	mg/L	J	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	HUN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	3.54	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.653	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW362 DOWN **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0986 **SAMPLE ID:** MW362UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	1.54	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.479	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.511	mg/L		0.4	/	SW846-9056A		=
Sulfate	31.3	mg/L		1.6	/	SW846-9056A		=
Barometric Pressure Reading	30.03	Inches/Hg			/	FS		X
Conductivity	632	µmhos/cm			/	FS		X
Depth to Water	22.98	ft			/	FS		X
Dissolved Oxygen	4.9	mg/L			/	FS		X
Eh (approx)	524.1	mV			/	FS		X
pH	7.01	Std Unit			/	FS		X
Temperature	62	deg F			/	FS		X
Turbidity	5.8	NTU			/	FS		X
Aluminum	0.0679	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0807	mg/L	N	0.004	/	SW846-6020B		J
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0208	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	18.8	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.00104	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0498	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.02	mg/L	N	0.03	/	SW846-6020B		J
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.000824	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.000613	mg/L	J	0.002	/	SW846-6020B		=
Potassium	0.311	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	124	mg/L		1.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.00218	mg/L		0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00429	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0822	mg/L	N	0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.00217	mg/L	B	0.0002	/	SW846-6020B		J
PCB-1016	0.111	ug/L	U	0.111	/	SW846-8082A		=
PCB-1221	0.111	ug/L	U	0.111	/	SW846-8082A		=
PCB-1232	0.111	ug/L	U	0.111	/	SW846-8082A		=
PCB-1242	0.111	ug/L	U	0.111	/	SW846-8082A		=
PCB-1248	0.111	ug/L	U	0.111	/	SW846-8082A		=
PCB-1254	0.111	ug/L	U	0.111	/	SW846-8082A		=
PCB-1260	0.111	ug/L	U	0.111	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW362 DOWN **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0986 **SAMPLE ID:** MW362UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.111	ug/L	U	0.111	/	SW846-8082A		=
Polychlorinated biphenyl	0.111	ug/L	U	0.111	/	SW846-8082A		=
Radium-226	0.789	pCi/L	U	0.832	0.762 / 0.765	AN-1418		=
Radium-228	2.53	pCi/L	U	4.61	2.77 / 2.85	EPA-904.0-M		=
Strontium-90	-2.42	pCi/L	U	6.08	3.13 / 3.13	EPA-905.0-M		=
Tritium	164	pCi/L	U	218	137 / 141	EPA-906.0-M		=
Technetium-99	4.86	pCi/L	U	14.3	8.33 / 8.35	HASL 300, Tc-02-RC M		=
Thorium-230	-0.373	pCi/L	U	1.52	0.415 / 0.416	HASL 300, Th-01-RC M		=
Thorium-232	-0.214	pCi/L	U	1.35	0.445 / 0.445	HASL 300, Th-01-RC M		=
Alpha activity	1.87	pCi/L	U	7.94	4.13 / 4.14	SW846-9310		=
Beta activity	12	pCi/L		9.55	6.58 / 6.89	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.88	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW362 DOWN **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0986 **SAMPLE ID:** MW362UG3-26 **Sample Type:** REG **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	372	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	HUN	0.005	/	SW846-9012B		UJ
Total Organic Halides (TOX)	15.5	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.97	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW363 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	18.2	mg/L		0.4	/	SW846-9056A		=
Fluoride	0.187	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	2.77	mg/L		0.2	/	SW846-9056A		=
Sulfate	26.3	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	29.93	Inches/Hg			/	FS		X
Conductivity	348	µmhos/cm			/	FS		X
Depth to Water	45.71	ft			/	FS		X
Dissolved Oxygen	2.55	mg/L			/	FS		X
Eh (approx)	456.2	mV			/	FS		X
pH	6.17	Std Unit			/	FS		X
Temperature	63.7	deg F			/	FS		X
Turbidity	3.71	NTU			/	FS		X
Aluminum	0.0985	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.114	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0238	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	20.8	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.000731	mg/L	J	0.001	/	SW846-6020B		=
Copper	0.000724	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.122	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.22	mg/L		0.03	/	SW846-6020B		=
Manganese	0.114	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.00026	mg/L	J	0.001	/	SW846-6020B		U
Nickel	0.0177	mg/L		0.002	/	SW846-6020B		=
Potassium	1.94	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	38.4	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.106	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
PCB-1221	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
PCB-1232	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
PCB-1242	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
PCB-1248	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
PCB-1254	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
PCB-1260	0.0978	ug/L	U	0.0978	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW363 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
Polychlorinated biphenyl	0.0978	ug/L	U	0.0978	/	SW846-8082A		=
Radium-226	0.0947	pCi/L	U	0.753	0.416 / 0.416	AN-1418		=
Radium-228	3.28	pCi/L	U	4.19	2.67 / 2.81	EPA-904.0-M		=
Strontium-90	-3.31	pCi/L	U	5.78	2.69 / 2.69	EPA-905.0-M		UJ
Tritium	100	pCi/L	U	154	97.1 / 99	EPA-906.0-M		=
Technetium-99	0.763	pCi/L	U	9.94	5.46 / 5.46	HASL 300, Tc-02-RC M		=
Thorium-230	0.675	pCi/L	U	1.57	0.998 / 1.01	HASL 300, Th-01-RC M		=
Thorium-232	0.122	pCi/L	U	0.965	0.538 / 0.539	HASL 300, Th-01-RC M		=
Alpha activity	-1.24	pCi/L	U	7.2	2.51 / 2.51	SW846-9310		=
Beta activity	-0.0345	pCi/L	U	10.4	5.45 / 5.45	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.02	ug/L	U	0.02	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.02	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW363 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.54	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	189	mg/L	B*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	14.3	mg/L	J	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	6.2	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.05	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW364 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4797 **SAMPLE ID:** MW364UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.46	mg/L		0.2	/	SW846-9056A		=
Chloride	38.1	mg/L		1	/	SW846-9056A		=
Fluoride	0.147	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.38	mg/L		0.5	/	SW846-9056A		=
Sulfate	67.9	mg/L		2	/	SW846-9056A		=
Barometric Pressure Reading	29.95	Inches/Hg			/	FS		X
Conductivity	469	µmhos/cm			/	FS		X
Depth to Water	45.45	ft			/	FS		X
Dissolved Oxygen	3.79	mg/L			/	FS		X
Eh (approx)	472.2	mV			/	FS		X
pH	5.92	Std Unit			/	FS		X
Temperature	62.3	deg F			/	FS		X
Turbidity	3.91	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0553	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.212	mg/L		0.075	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	33.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000778	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	14.6	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00485	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	2.06	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	41.7	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.0193	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0531	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
PCB-1221	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
PCB-1232	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
PCB-1242	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
PCB-1248	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
PCB-1254	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
PCB-1260	0.0947	ug/L	U	0.0947	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW364 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4797 **SAMPLE ID:** MW364UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
Polychlorinated biphenyl	0.0947	ug/L	U	0.0947	/	SW846-8082A		=
Radium-226	0.582	pCi/L	U	0.728	0.681 / 0.683	AN-1418		=
Radium-228	0.154	pCi/L	U	4.87	2.59 / 2.59	EPA-904.0-M		=
Strontium-90	-0.0601	pCi/L	U	4.21	2.2 / 2.2	EPA-905.0-M		=
Tritium	31.2	pCi/L	U	156	81.8 / 82	EPA-906.0-M		=
Technetium-99	52.7	pCi/L		10	9.58 / 11.3	HASL 300, Tc-02-RC M		=
Thorium-230	0.415	pCi/L	U	1.64	0.917 / 0.922	HASL 300, Th-01-RC M		=
Thorium-232	-0.145	pCi/L	U	1.08	0.371 / 0.372	HASL 300, Th-01-RC M		=
Alpha activity	2.31	pCi/L	U	7.2	3.95 / 3.97	SW846-9310		=
Beta activity	16.9	pCi/L		9.54	7.07 / 7.59	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.02	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW364 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4797 **SAMPLE ID:** MW364UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.89	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	304	mg/L	B*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	5	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.713	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW365 DOWN **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	1.74	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.362	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.654	mg/L		0.1	/	SW846-9056A		=
Sulfate	50.4	mg/L		2	/	SW846-9056A		=
Barometric Pressure Reading	29.97	Inches/Hg			/	FS		X
Conductivity	386	µmhos/cm			/	FS		X
Depth to Water	39.4	ft			/	FS		X
Dissolved Oxygen	8.12	mg/L			/	FS		X
Eh (approx)	476.3	mV			/	FS		X
pH	6.4	Std Unit			/	FS		X
Temperature	62.9	deg F			/	FS		X
Turbidity	3.89	NTU			/	FS		X
Aluminum	0.0195	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0865	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00754	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	19	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.00128	mg/L		0.001	/	SW846-6020B		=
Copper	0.00212	mg/L		0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.92	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00663	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00513	mg/L		0.002	/	SW846-6020B		=
Potassium	0.264	mg/L	J	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	54.6	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.000076	mg/L	J	0.0002	/	SW846-6020B		U
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00342	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0821	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.000153	mg/L	J	0.0002	/	SW846-6020B		J
PCB-1016	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
PCB-1221	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
PCB-1232	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
PCB-1242	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
PCB-1248	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
PCB-1254	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
PCB-1260	0.0958	ug/L	U	0.0958	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW365 DOWN **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
Polychlorinated biphenyl	0.0958	ug/L	U	0.0958	/	SW846-8082A		=
Radium-226	0.188	pCi/L	U	0.439	0.283 / 0.283	AN-1418		=
Radium-228	5	pCi/L		4.22	2.9 / 3.19	EPA-904.0-M		=
Strontium-90	4.17	pCi/L	U	6.04	3.7 / 3.75	EPA-905.0-M		=
Tritium	127	pCi/L	U	155	103 / 106	EPA-906.0-M		=
Technetium-99	-2.01	pCi/L	U	10	5.18 / 5.18	HASL 300, Tc-02-RC M		=
Thorium-230	0.747	pCi/L	U	1.79	1.13 / 1.13	HASL 300, Th-01-RC M		=
Thorium-232	0.19	pCi/L	U	0.859	0.596 / 0.597	HASL 300, Th-01-RC M		=
Alpha activity	-0.851	pCi/L	U	8.46	3.52 / 3.52	SW846-9310		=
Beta activity	2.43	pCi/L	U	10.8	6.03 / 6.05	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.02	ug/L	U	0.02	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.85	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW365 DOWN **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	257	mg/L	B*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	23.1	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.61	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW366 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0982 **SAMPLE ID:** MW366UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.475	mg/L		0.2	/	SW846-9056A		=
Chloride	42.4	mg/L		1	/	SW846-9056A		=
Fluoride	0.172	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.15	mg/L		0.5	/	SW846-9056A		=
Sulfate	50	mg/L		2	/	SW846-9056A		=
Barometric Pressure Reading	29.99	Inches/Hg			/	FS		X
Conductivity	492	µmhos/cm			/	FS		X
Depth to Water	46.03	ft			/	FS		X
Dissolved Oxygen	3.5	mg/L			/	FS		X
Eh (approx)	494.3	mV			/	FS		X
pH	5.99	Std Unit			/	FS		X
Temperature	63.3	deg F			/	FS		X
Turbidity	3.7	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0981	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.101	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	33.7	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000689	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	14.4	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00166	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.000674	mg/L	J	0.002	/	SW846-6020B		=
Potassium	2.09	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.00308	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	47.8	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0972	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
PCB-1221	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
PCB-1232	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
PCB-1242	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
PCB-1248	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
PCB-1254	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
PCB-1260	0.0975	ug/L	U	0.0975	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW366 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0982 **SAMPLE ID:** MW366UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
Polychlorinated biphenyl	0.0975	ug/L	U	0.0975	/	SW846-8082A		=
Radium-226	0.178	pCi/L	U	0.309	0.256 / 0.257	AN-1418		=
Radium-228	1.65	pCi/L	U	4.27	2.45 / 2.48	EPA-904.0-M		=
Strontium-90	-0.0687	pCi/L	U	4.53	2.37 / 2.37	EPA-905.0-M		=
Tritium	93.6	pCi/L	U	158	97.7 / 99.3	EPA-906.0-M		=
Technetium-99	75	pCi/L		10	10.9 / 13.8	HASL 300, Tc-02-RC M		=
Thorium-230	-0.028	pCi/L	U	1.55	0.683 / 0.684	HASL 300, Th-01-RC M		=
Thorium-232	-0.0685	pCi/L	U	0.995	0.404 / 0.405	HASL 300, Th-01-RC M		=
Alpha activity	-0.867	pCi/L	U	6.84	2.47 / 2.48	SW846-9310		=
Beta activity	35.8	pCi/L		11.4	9.54 / 11.1	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.9	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW366 DOWN **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0982 **SAMPLE ID:** MW366UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.45	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	291	mg/L	B*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	6.56	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.792	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	9.7	mg/L		0.4	/	SW846-9056A		=
Fluoride	0.0854	mg/L	J	0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.1	mg/L	U	0.1	/	SW846-9056A		=
Sulfate	22.6	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	30.01	Inches/Hg			/	FS		X
Conductivity	240	µmhos/cm			/	FS		X
Depth to Water	46.42	ft			/	FS		X
Dissolved Oxygen	2.24	mg/L			/	FS		X
Eh (approx)	303.2	mV			/	FS		X
pH	5.78	Std Unit			/	FS		X
Temperature	64.7	deg F			/	FS		X
Turbidity	9.11	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.128	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0259	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	15.2	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.00634	mg/L		0.001	/	SW846-6020B		=
Copper	0.000667	mg/L	J	0.002	/	SW846-6020B		=
Iron	3.96	mg/L		0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	8.39	mg/L		0.03	/	SW846-6020B		=
Manganese	1.3	mg/L		0.05	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00255	mg/L		0.002	/	SW846-6020B		=
Potassium	2.98	mg/L		0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	19.8	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.0112	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.115	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1221	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1232	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1242	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1248	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1254	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1260	0.1	ug/L	U	0.1	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.1	ug/L	U	0.1	/	SW846-8082A		=
Polychlorinated biphenyl	0.1	ug/L	U	0.1	/	SW846-8082A		=
Radium-226	0.704	pCi/L	U	0.772	0.732 / 0.734	AN-1418		=
Radium-228	1.99	pCi/L	U	3.28	2.01 / 2.07	EPA-904.0-M		=
Strontium-90	1.08	pCi/L	U	3.59	2.01 / 2.02	EPA-905.0-M		=
Tritium	-22	pCi/L	U	158	67.2 / 67.2	EPA-906.0-M		=
Technetium-99	11.6	pCi/L	U	18.6	11.1 / 11.2	HASL 300, Tc-02-RC M		=
Thorium-230	-0.366	pCi/L	U	1.8	0.618 / 0.618	HASL 300, Th-01-RC M		=
Thorium-232	-0.0709	pCi/L	U	1.04	0.425 / 0.426	HASL 300, Th-01-RC M		=
Alpha activity	1.57	pCi/L	U	7.9	4.06 / 4.06	SW846-9310		=
Beta activity	4.57	pCi/L	U	10.8	6.34 / 6.39	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.02	ug/L	U	0.02	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	0.99	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	128	mg/L	B*	10	/	EPA-160.1		J
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	10	ug/L	U	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.549	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW369 UP **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.323	mg/L		0.2	/	SW846-9056A		=
Chloride	27.8	mg/L		0.8	/	SW846-9056A		=
Fluoride	0.171	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.04	mg/L		0.4	/	SW846-9056A		=
Sulfate	7.64	mg/L	N	0.4	/	SW846-9056A		J
Barometric Pressure Reading	29.91	Inches/Hg			/	FS		X
Conductivity	358	µmhos/cm			/	FS		X
Depth to Water	40.24	ft			/	FS		X
Dissolved Oxygen	3.43	mg/L			/	FS		X
Eh (approx)	488.7	mV			/	FS		X
pH	6.06	Std Unit			/	FS		X
Temperature	61.7	deg F			/	FS		X
Turbidity	4.96	NTU			/	FS		X
Aluminum	0.0697	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.369	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0163	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	16.4	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.00432	mg/L		0.001	/	SW846-6020B		=
Copper	0.00161	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0978	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	7.09	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00472	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00265	mg/L		0.002	/	SW846-6020B		=
Potassium	0.537	mg/L	N	0.3	/	SW846-6020B		J
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.0027	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	52.3	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.0035	mg/L	J	0.02	/	SW846-6020B		=
Zinc	0.00467	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.36	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.102	ug/L	U	0.102	/	SW846-8082A		=
PCB-1221	0.102	ug/L	U	0.102	/	SW846-8082A		=
PCB-1232	0.102	ug/L	U	0.102	/	SW846-8082A		=
PCB-1242	0.102	ug/L	U	0.102	/	SW846-8082A		=
PCB-1248	0.102	ug/L	U	0.102	/	SW846-8082A		=
PCB-1254	0.102	ug/L	U	0.102	/	SW846-8082A		=
PCB-1260	0.102	ug/L	U	0.102	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW369 UP **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.102	ug/L	U	0.102	/	SW846-8082A		=
Polychlorinated biphenyl	0.102	ug/L	U	0.102	/	SW846-8082A		=
Radium-226	0.00586	pCi/L	U	0.592	0.269 / 0.269	AN-1418		=
Radium-228	7.86	pCi/L		4.59	3.44 / 4.03	EPA-904.0-M		=
Strontium-90	-1.49	pCi/L	U	6.17	2.99 / 2.99	EPA-905.0-M		=
Tritium	137	pCi/L	U	178	114 / 117	EPA-906.0-M		=
Technetium-99	50.8	pCi/L		9.78	9.34 / 11	HASL 300, Tc-02-RC M		=
Thorium-230	0.659	pCi/L	U	1.67	1.03 / 1.04	HASL 300, Th-01-RC M		=
Thorium-232	0.0795	pCi/L	U	1.12	0.562 / 0.563	HASL 300, Th-01-RC M		=
Alpha activity	-2.7	pCi/L	U	10.1	3.83 / 3.84	SW846-9310		=
Beta activity	44.9	pCi/L		11.6	10.4 / 12.7	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW369 UP **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.85	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	285	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	14.2	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.949	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW370 UP **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.503	mg/L		0.2	/	SW846-9056A		=
Chloride	41.8	mg/L		1	/	SW846-9056A		=
Fluoride	0.159	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.16	mg/L		0.5	/	SW846-9056A		=
Sulfate	19.6	mg/L	N	0.4	/	SW846-9056A		J
Barometric Pressure Reading	29.96	Inches/Hg			/	FS		X
Conductivity	425	µmhos/cm			/	FS		X
Depth to Water	41.12	ft			/	FS		X
Dissolved Oxygen	4.9	mg/L			/	FS		X
Eh (approx)	456.8	mV			/	FS		X
pH	6	Std Unit			/	FS		X
Temperature	61.8	deg F			/	FS		X
Turbidity	2.5	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.221	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0749	mg/L		0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	26.8	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000671	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	12	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00147	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	2.34	mg/L	N	0.3	/	SW846-6020B		J
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	42.4	mg/L		0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.221	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1221	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1232	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1242	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1248	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1254	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1260	0.1	ug/L	U	0.1	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW370 UP **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.1	ug/L	U	0.1	/	SW846-8082A		=
Polychlorinated biphenyl	0.1	ug/L	U	0.1	/	SW846-8082A		=
Radium-226	0.579	pCi/L	U	0.619	0.492 / 0.494	AN-1418		=
Radium-228	7.8	pCi/L		4.86	3.38 / 3.96	EPA-904.0-M		=
Strontium-90	0.0215	pCi/L	U	3.9	1.99 / 1.99	EPA-905.0-M		=
Tritium	-1.17	pCi/L	U	179	89.1 / 89.1	EPA-906.0-M		=
Technetium-99	13.4	pCi/L	U	19.9	11.9 / 12	HASL 300, Tc-02-RC M		=
Thorium-230	0.215	pCi/L	U	1.44	0.752 / 0.755	HASL 300, Th-01-RC M		=
Thorium-232	0.136	pCi/L	U	1.03	0.537 / 0.538	HASL 300, Th-01-RC M		=
Alpha activity	6.48	pCi/L	U	7.54	5.31 / 5.56	SW846-9310		=
Beta activity	8.4	pCi/L	U	10.5	6.63 / 6.79	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0187	ug/L	U	0.0187	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW370 UP **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1.13	ug/L		1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	226	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	3.68	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.79	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW371 UP **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4819 **SAMPLE ID:** MW371UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	3.01	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.199	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.1	mg/L	U	0.1	/	SW846-9056A		=
Sulfate	14.4	mg/L	N	0.4	/	SW846-9056A		J
Barometric Pressure Reading	29.99	Inches/Hg			/	FS		X
Conductivity	632	µmhos/cm			/	FS		X
Depth to Water	23.99	ft			/	FS		X
Dissolved Oxygen	5.17	mg/L			/	FS		X
Eh (approx)	428.1	mV			/	FS		X
pH	6.56	Std Unit			/	FS		X
Temperature	62	deg F			/	FS		X
Turbidity	5.06	NTU			/	FS		X
Aluminum	0.0587	mg/L		0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.00222	mg/L	J	0.005	/	SW846-6020B		=
Barium	0.159	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00658	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	55.4	mg/L		2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000822	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0571	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	16.4	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00421	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.000478	mg/L	J	0.001	/	SW846-6020B		=
Nickel	0.00133	mg/L	J	0.002	/	SW846-6020B		=
Potassium	0.313	mg/L	N	0.3	/	SW846-6020B		J
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	78.8	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.00162	mg/L		0.0002	/	SW846-6020B		=
Vanadium	0.0057	mg/L	J	0.02	/	SW846-6020B		=
Zinc	0.0033	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.156	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.00157	mg/L	B	0.0002	/	SW846-6020B		J
PCB-1016	0.106	ug/L	U	0.106	/	SW846-8082A		=
PCB-1221	0.106	ug/L	U	0.106	/	SW846-8082A		=
PCB-1232	0.106	ug/L	U	0.106	/	SW846-8082A		=
PCB-1242	0.106	ug/L	U	0.106	/	SW846-8082A		=
PCB-1248	0.106	ug/L	U	0.106	/	SW846-8082A		=
PCB-1254	0.106	ug/L	U	0.106	/	SW846-8082A		=
PCB-1260	0.106	ug/L	U	0.106	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW371 UP **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4819 **SAMPLE ID:** MW371UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.106	ug/L	U	0.106	/	SW846-8082A		=
Polychlorinated biphenyl	0.106	ug/L	U	0.106	/	SW846-8082A		=
Radium-226	0.0962	pCi/L	U	0.565	0.302 / 0.302	AN-1418		=
Radium-228	4.37	pCi/L	U	4.92	3.12 / 3.33	EPA-904.0-M		=
Strontium-90	-1.13	pCi/L	U	5.8	3.05 / 3.05	EPA-905.0-M		=
Tritium	8.24	pCi/L	U	179	91 / 91	EPA-906.0-M		=
Technetium-99	3.1	pCi/L	U	10.3	5.89 / 5.9	HASL 300, Tc-02-RC M		=
Thorium-230	0.668	pCi/L	U	1.21	0.821 / 0.829	HASL 300, Th-01-RC M		=
Thorium-232	-0.0568	pCi/L	U	0.761	0.303 / 0.304	HASL 300, Th-01-RC M		=
Alpha activity	3.97	pCi/L	U	9.2	5.36 / 5.47	SW846-9310		=
Beta activity	2.29	pCi/L	U	10.9	6.05 / 6.07	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW371 UP **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4819 **SAMPLE ID:** MW371UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	356	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	16	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.8	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW372 UP **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.3	mg/L		0.2	/	SW846-9056A		=
Chloride	36.1	mg/L		1	/	SW846-9056A		=
Fluoride	0.185	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.999	mg/L		0.5	/	SW846-9056A		=
Sulfate	151	mg/L	N	8	/	SW846-9056A		J
Barometric Pressure Reading	30	Inches/Hg			/	FS		X
Conductivity	785	µmhos/cm			/	FS		X
Depth to Water	35.45	ft			/	FS		X
Dissolved Oxygen	2.51	mg/L			/	FS		X
Eh (approx)	491.3	mV			/	FS		X
pH	6.11	Std Unit			/	FS		X
Temperature	62.1	deg F			/	FS		X
Turbidity	2.65	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0469	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	1.32	mg/L		0.15	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	67.7	mg/L		2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000881	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0331	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	23.9	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00149	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00105	mg/L	J	0.002	/	SW846-6020B		=
Potassium	2.01	mg/L	N	0.3	/	SW846-6020B		J
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.00244	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	67.7	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00438	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0482	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.103	ug/L	U	0.103	/	SW846-8082A		=
PCB-1221	0.103	ug/L	U	0.103	/	SW846-8082A		=
PCB-1232	0.103	ug/L	U	0.103	/	SW846-8082A		=
PCB-1242	0.103	ug/L	U	0.103	/	SW846-8082A		=
PCB-1248	0.103	ug/L	U	0.103	/	SW846-8082A		=
PCB-1254	0.103	ug/L	U	0.103	/	SW846-8082A		=
PCB-1260	0.103	ug/L	U	0.103	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW372 UP **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.103	ug/L	U	0.103	/	SW846-8082A		=
Polychlorinated biphenyl	0.103	ug/L	U	0.103	/	SW846-8082A		=
Radium-226	0.567	pCi/L	U	0.6	0.491 / 0.493	AN-1418		=
Radium-228	12.7	pCi/L		4.87	3.94 / 5.19	EPA-904.0-M		=
Strontium-90	0.666	pCi/L	U	4.81	2.65 / 2.65	EPA-905.0-M		=
Tritium	101	pCi/L	U	169	103 / 105	EPA-906.0-M		=
Technetium-99	53.7	pCi/L		10	9.71 / 11.5	HASL 300, Tc-02-RC M		=
Thorium-230	0.779	pCi/L	U	2.62	1.55 / 1.56	HASL 300, Th-01-RC M		=
Thorium-232	-0.189	pCi/L	U	1.93	0.707 / 0.71	HASL 300, Th-01-RC M		=
Alpha activity	1.56	pCi/L	U	9.69	4.94 / 4.95	SW846-9310		=
Beta activity	43.8	pCi/L		10.9	10 / 13.8	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0186	ug/L	U	0.0186	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW372 UP **RGA Type:** URGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.53	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	463	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	17.5	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.991	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW373 UP **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.284	mg/L		0.2	/	SW846-9056A		=
Chloride	28.3	mg/L		4	/	SW846-9056A		=
Fluoride	0.182	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	0.183	mg/L		0.1	/	SW846-9056A		=
Sulfate	226	mg/L	N	8	/	SW846-9056A		J
Barometric Pressure Reading	30	Inches/Hg			/	FS		X
Conductivity	962	µmhos/cm			/	FS		X
Depth to Water	35.77	ft			/	FS		X
Dissolved Oxygen	1.62	mg/L			/	FS		X
Eh (approx)	390.6	mV			/	FS		X
pH	6.02	Std Unit			/	FS		X
Temperature	62.7	deg F			/	FS		X
Turbidity	2.81	NTU			/	FS		X
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.0273	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	3.01	mg/L		0.75	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	87.6	mg/L		2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.000473	mg/L	J	0.001	/	SW846-6020B		=
Copper	0.000693	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0451	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	32.6	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0637	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00158	mg/L	J	0.002	/	SW846-6020B		=
Potassium	2.83	mg/L	N	0.3	/	SW846-6020B		J
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	77.3	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.000104	mg/L	J	0.0002	/	SW846-6020B		U
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.00849	mg/L	J	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.0284	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.000114	mg/L	BJ	0.0002	/	SW846-6020B		UJ
PCB-1016	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1221	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1232	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1242	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1248	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1254	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
PCB-1260	0.0991	ug/L	U	0.0991	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW373 UP **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
Polychlorinated biphenyl	0.0991	ug/L	U	0.0991	/	SW846-8082A		=
Radium-226	0.37	pCi/L	U	0.718	0.465 / 0.466	AN-1418		=
Radium-228	7.41	pCi/L		4.92	3.41 / 3.94	EPA-904.0-M		=
Strontium-90	1.15	pCi/L	U	3.06	1.75 / 1.76	EPA-905.0-M		=
Tritium	-4.19	pCi/L	U	177	87.7 / 87.7	EPA-906.0-M		=
Technetium-99	4.92	pCi/L	U	10.1	5.98 / 6.01	HASL 300, Tc-02-RC M		=
Thorium-230	1.5	pCi/L	U	1.77	1.38 / 1.4	HASL 300, Th-01-RC M		=
Thorium-232	-0.0743	pCi/L	U	1.11	0.454 / 0.455	HASL 300, Th-01-RC M		=
Alpha activity	0.131	pCi/L	U	10.5	4.83 / 4.83	SW846-9310		=
Beta activity	7.99	pCi/L	U	10.7	6.66 / 6.78	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0189	ug/L	U	0.0189	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW373 UP **RGA Type:** LRGA **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	0.97	ug/L	J	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	636	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	10.9	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	1.23	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW374 UP **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0990 **SAMPLE ID:** MW374UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.403	mg/L		0.2	/	SW846-9056A		=
Chloride	40.6	mg/L		1	/	SW846-9056A		=
Fluoride	0.172	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1.46	mg/L		0.5	/	SW846-9056A		=
Sulfate	21.8	mg/L	N	2	/	SW846-9056A		J
Barometric Pressure Reading	30	Inches/Hg			/	FS		X
Conductivity	670	µmhos/cm			/	FS		X
Depth to Water	20.52	ft			/	FS		X
Dissolved Oxygen	2.67	mg/L			/	FS		X
Eh (approx)	387.3	mV			/	FS		X
pH	6.72	Std Unit			/	FS		X
Temperature	62.9	deg F			/	FS		X
Turbidity	3.7	NTU			/	FS		X
Aluminum	0.0196	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.129	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.0098	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	23.4	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000528	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.0991	mg/L	J	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	6.39	mg/L		0.03	/	SW846-6020B		=
Manganese	0.0224	mg/L		0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	0.301	mg/L	N	0.3	/	SW846-6020B		J
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.0156	mg/L		0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	126	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.000655	mg/L		0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.12	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.000634	mg/L	B	0.0002	/	SW846-6020B		J
PCB-1016	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1221	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1232	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1242	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1248	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1254	0.101	ug/L	U	0.101	/	SW846-8082A		=
PCB-1260	0.101	ug/L	U	0.101	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW374 UP **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0990 **SAMPLE ID:** MW374UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.101	ug/L	U	0.101	/	SW846-8082A		=
Polychlorinated biphenyl	0.101	ug/L	U	0.101	/	SW846-8082A		=
Radium-226	0.139	pCi/L	U	1.18	0.603 / 0.604	AN-1418		=
Radium-228	5.84	pCi/L		4.88	3.23 / 3.59	EPA-904.0-M		=
Strontium-90	-2.05	pCi/L	U	4.16	1.86 / 1.86	EPA-905.0-M		UJ
Tritium	-26.5	pCi/L	U	179	83.6 / 83.6	EPA-906.0-M		=
Technetium-99	2.39	pCi/L	U	10.6	5.98 / 5.98	HASL 300, Tc-02-RC M		=
Thorium-230	0.0604	pCi/L	U	1.91	0.886 / 0.888	HASL 300, Th-01-RC M		=
Thorium-232	0.171	pCi/L	U	1.27	0.721 / 0.722	HASL 300, Th-01-RC M		=
Alpha activity	4.3	pCi/L	U	9.29	5.49 / 5.54	SW846-9310		=
Beta activity	5.65	pCi/L	U	10.8	6.46 / 6.53	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0187	ug/L	U	0.0187	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW374 UP **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0990 **SAMPLE ID:** MW374UG3-26 **Sample Type:** REG **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	372	mg/L		10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	14.5	ug/L		10	/	SW846-9020B		=
Total Organic Carbon (TOC)	2.17	mg/L		1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW375 SIDE **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0985 **SAMPLE ID:** MW375UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Bromide	0.2	mg/L	U	0.2	/	SW846-9056A		=
Chloride	3.64	mg/L		0.2	/	SW846-9056A		=
Fluoride	0.28	mg/L		0.1	/	SW846-9056A		=
Nitrate as Nitrogen	1	mg/L		0.2	/	SW846-9056A		=
Sulfate	21.6	mg/L		0.8	/	SW846-9056A		=
Barometric Pressure Reading	29.98	Inches/Hg			/	FS		X
Conductivity	337	µmhos/cm			/	FS		X
Depth to Water	38.21	ft			/	FS		X
Dissolved Oxygen	1.42	mg/L			/	FS		X
Eh (approx)	479.8	mV			/	FS		X
pH	6.3	Std Unit			/	FS		X
Temperature	67.3	deg F			/	FS		X
Turbidity	3.74	NTU			/	FS		X
Aluminum	0.0221	mg/L	J	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.172	mg/L		0.004	/	SW846-6020B		=
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.00765	mg/L	J	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	12.8	mg/L		0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.000702	mg/L	J	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	5.24	mg/L		0.03	/	SW846-6020B		=
Manganese	0.00231	mg/L	J	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.00097	mg/L	J	0.002	/	SW846-6020B		=
Potassium	0.264	mg/L	J	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.00246	mg/L	J	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	55	mg/L		2.5	/	SW846-6020B		=
Tantalum	0.005	mg/L	U	0.005	/	SW846-6020B		=
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
Barium, Dissolved	0.173	mg/L		0.004	/	SW846-6020B		J
Chromium, Dissolved	0.01	mg/L	U	0.01	/	SW846-6020B		UJ
Uranium, Dissolved	0.0002	mg/L	U	0.0002	/	SW846-6020B		UJ
PCB-1016	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1221	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1232	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1242	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1248	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1254	0.1	ug/L	U	0.1	/	SW846-8082A		=
PCB-1260	0.1	ug/L	U	0.1	/	SW846-8082A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW375 SIDE **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0985 **SAMPLE ID:** MW375UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
PCB-1268	0.1	ug/L	U	0.1	/	SW846-8082A		=
Polychlorinated biphenyl	0.1	ug/L	U	0.1	/	SW846-8082A		=
Radium-226	-0.037	pCi/L	U	0.523	0.207 / 0.207	AN-1418		=
Radium-228	2.96	pCi/L	U	4.63	2.83 / 2.94	EPA-904.0-M		=
Strontium-90	-0.209	pCi/L	U	5.47	2.88 / 2.88	EPA-905.0-M		=
Tritium	59	pCi/L	U	151	86.2 / 86.9	EPA-906.0-M		=
Technetium-99	-3.59	pCi/L	U	10.3	5.15 / 5.15	HASL 300, Tc-02-RC M		=
Thorium-230	0.576	pCi/L	U	1.71	1.03 / 1.04	HASL 300, Th-01-RC M		=
Thorium-232	0.0874	pCi/L	U	1.21	0.606 / 0.607	HASL 300, Th-01-RC M		=
Alpha activity	-0.18	pCi/L	U	8.72	3.88 / 3.89	SW846-9310		=
Beta activity	3.69	pCi/L	U	11.3	6.46 / 6.49	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0191	ug/L	U	0.0191	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.01	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: MW375 SIDE **RGA Type:** UCRS **Period:** 2nd Quarter 2026

AKGWA Well Tag #: 8004-0985 **SAMPLE ID:** MW375UG3-26 **Sample Type:** REG **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=
Dissolved Solids	259	mg/L	B*	10	/	EPA-160.1		=
Chemical Oxygen Demand (COD)	20	mg/L	U	20	/	EPA-410.4		=
Cyanide	0.005	mg/L	U	0.005	/	SW846-9012B		=
Total Organic Halides (TOX)	7.52	ug/L	J	10	/	SW846-9020B		=
Total Organic Carbon (TOC)	0.808	mg/L	J	1	/	SW846-9060A		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** FB1UG3-26 **Sample Type:** FB **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.004	mg/L	UN	0.004	/	SW846-6020B		UJ
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.015	mg/L	U	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	0.2	mg/L	U	0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.002	mg/L	U	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	0.03	mg/L	UN	0.03	/	SW846-6020B		UJ
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	0.3	mg/L	U	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	0.25	mg/L	U	0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
PCB-1016	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1221	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1232	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1242	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1248	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1254	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1260	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
PCB-1268	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
Polychlorinated biphenyl	0.0952	ug/L	U	0.0952	/	SW846-8082A		=
Radium-226	0.0942	pCi/L	U	0.447	0.248 / 0.249	AN-1418		=
Radium-228	4.6	pCi/L	U	4.75	3.14 / 3.37	EPA-904.0-M		=
Strontium-90	1.28	pCi/L	U	5.89	3.32 / 3.32	EPA-905.0-M		=
Tritium	78.3	pCi/L	U	229	131 / 131	EPA-906.0-M	U,J	=
Technetium-99	-2.26	pCi/L	U	14.2	7.7 / 7.7	HASL 300, Tc-02-RC M		=
Thorium-230	0.345	pCi/L	U	1.52	0.849 / 0.854	HASL 300, Th-01-RC M		=
Thorium-232	-0.204	pCi/L	U	1.28	0.423 / 0.423	HASL 300, Th-01-RC M		=
Alpha activity	-0.017	pCi/L	U	7.39	3.23 / 3.24	SW846-9310		=
Beta activity	3.05	pCi/L	U	9.37	5.34 / 5.37	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.0192	ug/L	U	0.0192	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** FB1UG3-26 **Sample Type:** FB **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.99	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** RI1UG3-26 **Sample Type:** RI **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Iodide	0.5	mg/L	U	0.5	/	EPA-300.0		=
Aluminum	0.05	mg/L	U	0.05	/	SW846-6020B		=
Antimony	0.003	mg/L	U	0.003	/	SW846-6020B		=
Arsenic	0.005	mg/L	U	0.005	/	SW846-6020B		=
Barium	0.004	mg/L	UN	0.004	/	SW846-6020B		UJ
Beryllium	0.0005	mg/L	U	0.0005	/	SW846-6020B		=
Boron	0.015	mg/L	U	0.015	/	SW846-6020B		=
Cadmium	0.001	mg/L	U	0.001	/	SW846-6020B		=
Calcium	0.2	mg/L	U	0.2	/	SW846-6020B		=
Chromium	0.01	mg/L	U	0.01	/	SW846-6020B		=
Cobalt	0.001	mg/L	U	0.001	/	SW846-6020B		=
Copper	0.002	mg/L	U	0.002	/	SW846-6020B		=
Iron	0.1	mg/L	U	0.1	/	SW846-6020B		=
Lead	0.002	mg/L	U	0.002	/	SW846-6020B		=
Magnesium	0.03	mg/L	UN	0.03	/	SW846-6020B		UJ
Manganese	0.005	mg/L	U	0.005	/	SW846-6020B		=
Molybdenum	0.001	mg/L	U	0.001	/	SW846-6020B		=
Nickel	0.002	mg/L	U	0.002	/	SW846-6020B		=
Potassium	0.3	mg/L	U	0.3	/	SW846-6020B		=
Rhodium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Selenium	0.005	mg/L	U	0.005	/	SW846-6020B		=
Silver	0.001	mg/L	U	0.001	/	SW846-6020B		=
Sodium	0.25	mg/L	U	0.25	/	SW846-6020B		=
Tantalum	0.005	mg/L	UNN1	0.005	/	SW846-6020B		UJ
Thallium	0.002	mg/L	U	0.002	/	SW846-6020B		=
Uranium	0.0002	mg/L	U	0.0002	/	SW846-6020B		=
Vanadium	0.02	mg/L	U	0.02	/	SW846-6020B		=
Zinc	0.02	mg/L	U	0.02	/	SW846-6020B		=
Mercury	0.0002	mg/L	U	0.0002	/	SW846-7470A		=
PCB-1016	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1221	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1232	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1242	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1248	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1254	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1260	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
PCB-1268	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
Polychlorinated biphenyl	0.0963	ug/L	U	0.0963	/	SW846-8082A		=
Radium-226	0.0192	pCi/L	U	0.465	0.219 / 0.219	AN-1418		=
Radium-228	3.24	pCi/L	U	4.85	3 / 3.12	EPA-904.0-M		=
Strontium-90	0.82	pCi/L	U	6.82	3.74 / 3.75	EPA-905.0-M		=
Tritium	78.1	pCi/L	U	228	130 / 131	EPA-906.0-M		=
Technetium-99	3.65	pCi/L	U	16.2	9.3 / 9.31	HASL 300, Tc-02-RC M		=
Thorium-230	-0.0115	pCi/L	U	1.62	0.72 / 0.721	HASL 300, Th-01-RC M		=
Thorium-232	-0.12	pCi/L	U	1.18	0.437 / 0.437	HASL 300, Th-01-RC M		=
Alpha activity	-2.9	pCi/L	U	8.38	2.72 / 2.72	SW846-9310		UJ
Beta activity	-2.69	pCi/L	U	10.5	5.18 / 5.18	SW846-9310		=
1,2-Dibromo-3-chloropropane	0.019	ug/L	U	0.019	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** RI1UG3-26 **Sample Type:** RI **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.85	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB1UG3-26 **Sample Type:** TB **Date Collected:** 4/14/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0188	ug/L	U	0.0188	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	2.03	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB2UG3-26 **Sample Type:** TB **Date Collected:** 4/15/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.02	ug/L	U	0.02	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	1.05	ug/L	BJ	5	/	SW846-8260D		U
Styrene	1	ug/L	U	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	UY1	1	/	SW846-8260D		UJ
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	UY1	3	/	SW846-8260D		UJ
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: QC **Period:** 2nd Quarter 2026

AKGWA Well Tag #: N/A **SAMPLE ID:** TB3UG3-26 **Sample Type:** TB **Date Collected:** 4/16/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
1,2-Dibromo-3-chloropropane	0.0185	ug/L	U	0.0185	/	SW846-8011		=
1,1,1,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,1-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2,2-Tetrachloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1,2-Trichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,1-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
1,2,3-Trichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dibromoethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloroethane	1	ug/L	U	1	/	SW846-8260D		=
1,2-Dichloropropane	1	ug/L	U	1	/	SW846-8260D		=
1,4-Dichlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
2-Butanone	5	ug/L	U	5	/	SW846-8260D		=
2-Hexanone	5	ug/L	U	5	/	SW846-8260D		=
4-Methyl-2-pentanone	5	ug/L	U	5	/	SW846-8260D		=
Acetone	5	ug/L	U	5	/	SW846-8260D		=
Acrolein	5	ug/L	U	5	/	SW846-8260D		=
Acrylonitrile	5	ug/L	U	5	/	SW846-8260D		=
Benzene	1	ug/L	U	1	/	SW846-8260D		=
Bromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Bromodichloromethane	1	ug/L	UY1	1	/	SW846-8260D		=
Bromoform	1	ug/L	U	1	/	SW846-8260D		=
Bromomethane	1	ug/L	U	1	/	SW846-8260D		=
Carbon disulfide	5	ug/L	U	5	/	SW846-8260D		=
Carbon tetrachloride	1	ug/L	U	1	/	SW846-8260D		=
Chlorobenzene	1	ug/L	U	1	/	SW846-8260D		=
Chloroethane	1	ug/L	U	1	/	SW846-8260D		=
Chloroform	1	ug/L	U	1	/	SW846-8260D		=
Chloromethane	1	ug/L	U	1	/	SW846-8260D		=
cis-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
cis-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
Dibromochloromethane	1	ug/L	U	1	/	SW846-8260D		=
Dibromomethane	1	ug/L	U	1	/	SW846-8260D		=
Ethylbenzene	1	ug/L	U	1	/	SW846-8260D		=
Iodomethane	5	ug/L	U	5	/	SW846-8260D		=
Methylene chloride	5	ug/L	U	5	/	SW846-8260D		=
Styrene	1	ug/L	UY1	1	/	SW846-8260D		=
Tetrachloroethene	1	ug/L	U	1	/	SW846-8260D		=
Toluene	1	ug/L	U	1	/	SW846-8260D		=
Total Xylene	3	ug/L	U	3	/	SW846-8260D		=
trans-1,2-Dichloroethene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,3-Dichloropropene	1	ug/L	U	1	/	SW846-8260D		=
trans-1,4-Dichloro-2-butene	5	ug/L	U	5	/	SW846-8260D		=
Trichloroethene	1	ug/L	U	1	/	SW846-8260D		=
Trichlorofluoromethane	1	ug/L	U	1	/	SW846-8260D		=
Vinyl acetate	5	ug/L	U	5	/	SW846-8260D		=
Vinyl chloride	1	ug/L	U	1	/	SW846-8260D		=

Qualifier Code Definitions	
*	Duplicate analysis not within control limits.
B	Analyte was detected in the associated blank.
H	Analysis performed outside holding time requirement.
J	Estimated value.
L	LCS and/or LCSD recovery outside of control limits.
L1	LCS/LCSD RPD outside acceptance criteria.
N	MS and/or MSD recovery outside of control limits.
N1	MS/MSD RPD outside of acceptance criteria.
Q	Quality issue exists with instrument calibration.
P	Difference between results from two GC columns outside control limits.
S	Sample surrogate recovery outside acceptance criteria.
T	Tracer recovery outside control limits of 30-110%.
U	Not detected. (RADS: Value reported is < MDA.)
W	Post-digestion spike recovery outside of control limits.
W1	Post-digestion spike and post-digestion spike duplicate RPD outside of control limits.
X	Other specific flags and footnotes may be required to properly define the results.
Y1	MS and/or MSD recovery outside of control limits.
Y2	MS/MSD RPD outside acceptance criteria.

RGA Type Code Definitions	
LRGA	Lower Regional Gravel Aquifer
UCRS	Upper Continental Recharge System
URGA	Upper Regional Gravel Aquifer
NA	Not Applicable.

Sample Type Code Definitions	
REG	Regular
FR	Field Replicate (code used for Field Duplicate)
RI	Equipment Rinsate Blank
FB	Field Blank
TB	Trip Blank

Assessment Code Definitions	
BH-QC	Result may be biased high based upon lab QC (i.e., surrogate, MS/MSD)
BL-QC	Result may be biased low based upon lab QC (i.e., surrogate, MS/MSD)
FDUP-OUT	Field duplicate exceeds the RPD criterion
J	Result estimated
R-H	Result unusable due to historical trending (i.e., outlier)
U	Not detected
U,J	Not detected and result estimated

Validation Code Definitions	
=	Validated result, no additional qualifier necessary
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R	Result rejected by validator.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ	Analyte not detected above the reported detection limit, and the reported detection limit is approximated due to quality deficiency.
X	Not validated

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ATTACHMENT C1

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW357UG3-26
Sample ID: 772658001
Matrix: WG
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.365	+/-0.348	0.448	+/-0.349	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.452	+/-0.917	1.55	+/-0.923	50.0	pCi/L			SB3	04/19/26	1227	2979102	2
Thorium-232	U	-0.0712	+/-0.427	1.05	+/-0.428		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	4.06	+/-2.93	4.54	+/-3.12	4.99	pCi/L			DH1	04/27/26	1232	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.49	+/-1.98	4.17	+/-1.98	8.00	pCi/L			HH3	04/22/26	1346	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	6.20	+/-5.40	7.95	+/-5.51	15.0	pCi/L			HH3	04/17/26	1306	2978924	5
Beta		42.9	+/-11.2	14.2	+/-13.3	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	105	+/-134	229	+/-136	300	pCi/L			MG6	04/20/26	2217	2978587	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		36.7	+/-10.5	14.4	+/-11.3	25.0	pCi/L			BB3	05/04/26	0459	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	97.8	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	89.6	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	73.6	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	84.1	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	94	(30%-110%)

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Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW357UG3-26
Sample ID: 772658001

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW358UG3-26
Sample ID: 772658003
Matrix: WG
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.511	+/-0.779	1.25	+/-0.780	5.00	pCi/L			CM4	04/22/26	0857	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.436	+/-0.487	1.76	+/-0.488	50.0	pCi/L			SB3	04/19/26	1227	2979102	2
Thorium-232	U	-0.186	+/-0.497	1.43	+/-0.498		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.19	+/-2.89	4.95	+/-2.95	4.99	pCi/L			DH1	04/27/26	1041	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.371	+/-1.71	3.52	+/-1.71	8.00	pCi/L			HH3	04/22/26	1346	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha		9.84	+/-6.05	7.42	+/-6.26	15.0	pCi/L			HH3	04/20/26	1225	2978924	5
Beta		21.1	+/-8.11	10.8	+/-8.82	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-68.7	+/-108	228	+/-108	300	pCi/L			MG6	04/20/26	2238	2978587	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		29.9	+/-10.1	14.5	+/-10.7	25.0	pCi/L			BB3	05/04/26	0515	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	98	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	82.2	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	82.8	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	90.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	95	(30%-110%)

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW358UG3-26
Sample ID: 772658003

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW360UG3-26
Sample ID: 772658005
Matrix: WG
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.175	+/-0.310	0.517	+/-0.310	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.378	+/-0.456	1.63	+/-0.457	50.0	pCi/L			SB3	04/19/26	1227	2979102	2
Thorium-232	U	0.145	+/-0.626	1.11	+/-0.627		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.15	+/-2.77	4.73	+/-2.83	4.99	pCi/L			DH1	04/27/26	1042	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-2.01	+/-1.63	3.90	+/-1.63	8.00	pCi/L			HH3	04/22/26	1346	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	3.42	+/-4.18	6.93	+/-4.22	15.0	pCi/L			HH3	04/17/26	1306	2978924	5
Beta	U	5.33	+/-7.74	13.2	+/-7.79	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	71.4	+/-129	227	+/-130	300	pCi/L			MG6	04/20/26	2300	2978587	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	8.16	+/-8.80	14.7	+/-8.85	25.0	pCi/L			BB3	05/04/26	0532	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	97.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	85.9	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	78.4	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	86.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	92.5	(30%-110%)

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Company : Four Rivers Nuclear Partnership, LLC
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Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW360UG3-26
Sample ID: 772658005

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Four Rivers Nuclear Partnership, LLC
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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361DUG3-26
Sample ID: 772658007
Matrix: WG
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	-0.0732	+/-0.309	0.825	+/-0.310	5.00	pCi/L			CM4	04/22/26	0857	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.169	+/-0.602	1.46	+/-0.602	50.0	pCi/L			SB3	04/22/26	0909	2979102	2
Thorium-232	U	-0.160	+/-0.320	0.980	+/-0.321		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	1.25	+/-2.65	4.79	+/-2.67	4.99	pCi/L			DH1	04/27/26	1041	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	1.67	+/-2.40	4.13	+/-2.41	8.00	pCi/L			HH3	04/22/26	1346	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-1.12	+/-2.82	7.51	+/-2.82	15.0	pCi/L			HH3	04/17/26	1307	2978924	5
Beta		41.5	+/-10.3	12.4	+/-12.3	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	22.0	+/-122	228	+/-122	300	pCi/L			MG6	04/20/26	2322	2978587	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		41.8	+/-10.8	14.5	+/-11.8	25.0	pCi/L			BB3	05/04/26	0548	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	95	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	95.4	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	65.4	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	88.4	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	94.2	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361DUG3-26
Sample ID: 772658007

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Address : 5600 Hobbs Road

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361UG3-26
Sample ID: 772658009
Matrix: WG
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.407	+/-0.366	0.465	+/-0.367	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.325	+/-0.438	1.53	+/-0.440	50.0	pCi/L			SB3	04/19/26	1227	2979102	2
Thorium-232	U	0.0390	+/-0.635	1.36	+/-0.636		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.46	+/-2.93	4.93	+/-3.00	4.99	pCi/L			DH1	04/27/26	1042	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	0.387	+/-1.61	3.05	+/-1.61	8.00	pCi/L			HH3	04/22/26	1346	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.26	+/-4.33	8.71	+/-4.34	15.0	pCi/L			HH3	04/17/26	1306	2978924	5
Beta		25.5	+/-8.16	9.82	+/-9.19	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-18.9	+/-109	217	+/-109	300	pCi/L			MG6	04/20/26	1823	2979608	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		59.6	+/-12.5	15.9	+/-14.2	25.0	pCi/L			BB3	05/04/26	0605	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	97.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	81.1	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	80.9	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	97	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	95.2	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361UG3-26
Sample ID: 772658009

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW362UG3-26
Sample ID: 772658011
Matrix: WG
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.789	+/-0.762	0.832	+/-0.765	5.00	pCi/L			CM4	04/22/26	0857	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.373	+/-0.415	1.52	+/-0.416	50.0	pCi/L			SB3	04/19/26	1227	2979102	2
Thorium-232	U	-0.214	+/-0.445	1.35	+/-0.445		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.53	+/-2.77	4.61	+/-2.85	4.99	pCi/L			DH1	04/27/26	1042	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-2.42	+/-3.13	6.08	+/-3.13	8.00	pCi/L			HH3	04/22/26	1343	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.87	+/-4.13	7.94	+/-4.14	15.0	pCi/L			HH3	04/17/26	1306	2978924	5
Beta		12.0	+/-6.58	9.55	+/-6.89	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	164	+/-137	218	+/-141	300	pCi/L			MG6	04/20/26	1844	2979608	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	4.86	+/-8.33	14.3	+/-8.35	25.0	pCi/L			BB3	05/04/26	0622	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	99.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	89.6	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	72.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	86.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	95.9	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW362UG3-26
Sample ID: 772658011

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: RI1UG3-26
Sample ID: 772658013
Matrix: WATER
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0192	+/-0.219	0.465	+/-0.219	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.0115	+/-0.720	1.62	+/-0.721	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	-0.120	+/-0.437	1.18	+/-0.437		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	3.24	+/-3.00	4.85	+/-3.12	4.99	pCi/L			DH1	04/27/26	1042	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	0.820	+/-3.74	6.82	+/-3.75	8.00	pCi/L			HH3	04/22/26	1446	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-2.90	+/-2.72	8.38	+/-2.72	15.0	pCi/L			HH3	04/17/26	1306	2978924	5
Beta	U	-2.69	+/-5.18	10.5	+/-5.18	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	78.1	+/-130	228	+/-131	300	pCi/L			MG6	04/20/26	2343	2978587	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	3.65	+/-9.30	16.2	+/-9.31	25.0	pCi/L			BB3	05/04/26	0638	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	99.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	85.7	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	81.1	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	51.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	95.6	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: RI1UG3-26
Sample ID: 772658013

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: FB1UG3-26
Sample ID: 772658015
Matrix: WATER
Collect Date: 14-APR-26
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0942	+/-0.248	0.447	+/-0.249	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.345	+/-0.849	1.52	+/-0.854	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	-0.204	+/-0.423	1.28	+/-0.423		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	4.60	+/-3.14	4.75	+/-3.37	4.99	pCi/L			DH1	04/27/26	1041	2978949	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	1.28	+/-3.32	5.89	+/-3.32	8.00	pCi/L			HH3	04/22/26	1446	2978963	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.0170	+/-3.23	7.39	+/-3.24	15.0	pCi/L			HH3	04/17/26	1306	2978924	5
Beta	U	3.05	+/-5.34	9.37	+/-5.37	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	78.3	+/-131	229	+/-131	300	pCi/L			MG6	04/21/26	0005	2978587	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	-2.26	+/-7.70	14.2	+/-7.70	25.0	pCi/L			BB3	05/04/26	0655	2978621	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	101	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	93.9	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2978949	77.6	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2978963	81.9	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2978621	97.4	(30%-110%)

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: FB1UG3-26
Sample ID: 772658015

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW357UG3-26
Sample ID: 772658001
Matrix: WG
Collect Date: 14-APR-26 12:19
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00853	0.0189	ug/L	0.947	1	LL2	04/17/26	1623	2978681	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.564	0.330	1.00	mg/L		1	KB3	04/21/26	0644	2978666	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	HUN	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	0945	2981901	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	7.90	3.33	10.0	ug/L		1	JW2	04/22/26	1317	2980946	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1427	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.370	0.0670	0.200	mg/L		1	CH6	04/15/26	1414	2978552	7
Fluoride		0.159	0.0330	0.100	mg/L		1					
Chloride		32.4	0.335	1.00	mg/L		5	CH6	04/15/26	1707	2978552	8
Nitrate-N		1.33	0.165	0.500	mg/L		5					
Sulfate		34.4	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0854	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	1913	2978711	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	N	0.0739	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		25.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW357UG3-26 Project: FRNP00714
Sample ID: 772658001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000814	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	10.5	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.61	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		41.9	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	J	0.00349	0.00330	0.0200	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1223	2978711	11
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Boron		0.317	0.0104	0.0300	mg/L	1.00	2	MM12	04/27/26	1915	2978711	12
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1034	2978711	13
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0971	0.0323	0.0971	ug/L	0.000971	1	NS2	04/16/26	1949	2978968	14
Aroclor-1221	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-1232	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-1242	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-1248	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-1254	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-1260	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-1268	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Aroclor-Total	U	0.0971	0.0323	0.0971	ug/L	0.000971	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		224	2.38	10.0	mg/L			SC1	04/16/26	1117	2979067	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW357UG3-26 Project: FRNP00714
Sample ID: 772658001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/12/26	1441	2992834	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1729	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW357UG3-26	Project:	FRNP00714
Sample ID:	772658001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.930	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene		2.05	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/28/26	1500	2981900
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW357UG3-26	Project:	FRNP00714
Sample ID:	772658001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.98 ug/L	6.77	88	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.131 ug/L	0.194	68	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.140 ug/L	0.194	72	(28%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.6 ug/L	50.0	109	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	53.8 ug/L	50.0	108	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.0 ug/L	50.0	102	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW357UG3-26	Project:	FRNP00714
Sample ID:	772658002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 12:19		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium	N	0.0763	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0026	2979009	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1219	2979009	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979007
EPA 160	Laboratory Filtration	JM13	04/16/26	0805	2978692

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW358UG3-26	Project:	FRNP00714
Sample ID:	772658003	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 13:11		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00855	0.0190	ug/L	0.950	1	LL2	04/17/26	1657	2978681	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.71	0.330	1.00	mg/L		1	KB3	04/21/26	0716	2978666	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	HUN	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	0946	2981901	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	3.75	3.33	10.0	ug/L		1	JW2	04/22/26	1404	2980946	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1440	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.271	0.0670	0.200	mg/L		1	CH6	04/15/26	1431	2978552	7
Fluoride		0.216	0.0330	0.100	mg/L		1					
Nitrate-N	U	0.100	0.0330	0.100	mg/L		1					
Chloride		22.6	0.335	1.00	mg/L		5	CH6	04/15/26	1725	2978552	8
Sulfate		36.6	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0855	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	J	0.0214	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	1918	2978711	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00490	0.00200	0.00500	mg/L	1.00	1					
Barium	N	0.0816	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		31.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0256	0.000300	0.00100	mg/L	1.00	1					

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW358UG3-26 Project: FRNP00714
Sample ID: 772658003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.00106	0.000300	0.00200	mg/L	1.00	1					
Iron		8.56	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	15.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000472	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.0531	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.85	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		33.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	J	0.0100	0.00330	0.0200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1	MM12	04/28/26	1224	2978711	11
Boron		0.236	0.0260	0.0750	mg/L	1.00	5	MM12	04/27/26	1921	2978711	12
Manganese		2.22	0.0500	0.250	mg/L	1.00	50	MM12	04/28/26	1244	2978711	13
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1036	2978711	14
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0963	0.0321	0.0963	ug/L	0.000963	1	NS2	04/16/26	2007	2978968	15
Aroclor-1221	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1232	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1242	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1248	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1254	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1260	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1268	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-Total	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		226	2.38	10.0	mg/L			SC1	04/16/26	1117	2979067	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW358UG3-26 Project: FRNP00714
Sample ID: 772658003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/12/26	1441	2992834	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1755	2981799	18
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW358UG3-26 Project: FRNP00714
Sample ID: 772658003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.980	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.900	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/28/26	1500	2981900
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW358UG3-26	Project:	FRNP00714
Sample ID:	772658003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3535A/8082A	
16	EPA 160.1	
17	EPA 410.4	
18	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.39 ug/L	6.78	79	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0640 ug/L	0.193	33	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.122 ug/L	0.193	63	(28%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.3 ug/L	50.0	111	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	53.1 ug/L	50.0	106	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(89%-112%)

Notes:

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW358UG3-26	Project:	FRNP00714
Sample ID:	772658003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW358UG3-26	Project:	FRNP00714
Sample ID:	772658004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 13:11		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium	N	0.0792	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0029	2979009	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1220	2979009	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	JM13	04/16/26	0805	2978692
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979007

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW360UG3-26	Project:	FRNP00714
Sample ID:	772658005	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 07:30		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0187	0.00843	0.0187	ug/L	0.937	1	LL2	04/17/26	1731	2978681	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.02	0.330	1.00	mg/L		1	KB3	04/21/26	0855	2978666	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	HUN	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	0947	2981901	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	3.79	3.33	10.0	ug/L		1	JW2	04/22/26	1156	2980946	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1453	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/15/26	1449	2978552	7
Chloride		6.18	0.0670	0.200	mg/L		1					
Fluoride		0.212	0.0330	0.100	mg/L		1					
Sulfate		10.3	0.133	0.400	mg/L		1					
Nitrate-N		0.843	0.132	0.400	mg/L		4	CH6	04/15/26	1742	2978552	8
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0857	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum		0.0682	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	1935	2978711	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	N	0.199	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0197	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		18.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW360UG3-26 Project: FRNP00714
Sample ID: 772658005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Cobalt	J	0.000546	0.000300	0.00100	mg/L	1.00	1					
Copper		0.00218	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0904	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	7.74	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00120	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.680	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00197	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	J	0.00530	0.00330	0.0200	mg/L	1.00	1					
Manganese		0.00503	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1230	2978711	11
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Sodium		62.8	0.160	0.500	mg/L	1.00	2	MM12	04/27/26	1949	2978711	12
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1037	2978711	13
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0333	0.100	ug/L	0.00100	1	NS2	04/16/26	2026	2978968	14
Aroclor-1221	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1232	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1242	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1248	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1254	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1260	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1268	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-Total	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		226	2.38	10.0	mg/L			SC1	04/16/26	1117	2979067	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW360UG3-26 Project: FRNP00714
Sample ID: 772658005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/12/26	1441	2992834	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1820	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW360UG3-26 Project: FRNP00714
Sample ID: 772658005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.770	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.470	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/28/26	1500	2981900
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW360UG3-26	Project:	FRNP00714
Sample ID:	772658005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.59 ug/L	6.69	84	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0930 ug/L	0.200	47	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.148 ug/L	0.200	74	(28%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	56.1 ug/L	50.0	112	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.3 ug/L	50.0	103	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.6 ug/L	50.0	99	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW360UG3-26	Project:	FRNP00714
Sample ID:	772658006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 07:30		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium	N	0.182	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0037	2979009	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1235	2979009	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979007
EPA 160	Laboratory Filtration	JM13	04/16/26	0805	2978692

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361DUG3-26	Project:	FRNP00714
Sample ID:	772658007	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 08:36		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00854	0.0190	ug/L	0.949	1	LL2	04/17/26	1914	2978681	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.686	0.330	1.00	mg/L		1	KB3	04/21/26	0748	2978666	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	HUN	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	0950	2981901	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	6.24	3.33	10.0	ug/L		1	JW2	04/22/26	1435	2980946	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1531	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.471	0.0670	0.200	mg/L		1	CH6	04/15/26	1506	2978552	7
Fluoride		0.156	0.0330	0.100	mg/L		1					
Chloride		39.7	0.335	1.00	mg/L		5	CH6	04/15/26	1835	2978552	8
Nitrate-N		1.37	0.165	0.500	mg/L		5					
Sulfate		80.9	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0904	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	2006	2978711	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	N	0.0492	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361DUG3-26 Project: FRNP00714
Sample ID: 772658007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000884	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	14.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.29	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		43.3	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Manganese	J	0.00127	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1234	2978711	11
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Boron		0.242	0.0104	0.0300	mg/L	1.00	2	MM12	04/27/26	2009	2978711	12
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1048	2978711	13
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0991	0.0330	0.0991	ug/L	0.000991	1	NS2	04/16/26	2145	2978968	14
Aroclor-1221	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1232	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1242	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1248	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1254	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1260	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1268	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-Total	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		288	2.38	10.0	mg/L			SC1	04/16/26	1117	2979067	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361DUG3-26 Project: FRNP00714
Sample ID: 772658007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/12/26	1441	2992834	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1846	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361DUG3-26	Project:	FRNP00714
Sample ID:	772658007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.780	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/28/26	1500	2981900

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361DUG3-26	Project:	FRNP00714
Sample ID:	772658007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.10 ug/L	6.78	90	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.140 ug/L	0.198	71	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.127 ug/L	0.198	64	(28%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	56.7 ug/L	50.0	113	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.2 ug/L	50.0	108	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361DUG3-26	Project:	FRNP00714
Sample ID:	772658008	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 08:36		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium	N	0.0532	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0051	2979009	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1236	2979009	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	JM13	04/16/26	0805	2978692
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979007

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361UG3-26 | Project: FRNP00714
Sample ID: 772658009 | Client ID: FRNP007
Matrix: WG
Collect Date: 14-APR-26 08:36
Receive Date: 15-APR-26
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00857	0.0190	ug/L	0.952	1	LL2	04/17/26	1949	2978681	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.653	0.330	1.00	mg/L		1	KB3	04/21/26	1031	2978666	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	HUN	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	0951	2981901	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	3.54	3.33	10.0	ug/L		1	JW2	04/22/26	1522	2980946	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1544	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.468	0.0670	0.200	mg/L		1	CH6	04/15/26	1523	2978552	7
Fluoride		0.157	0.0330	0.100	mg/L		1					
Chloride		39.1	0.335	1.00	mg/L		5	CH6	04/15/26	1853	2978552	8
Nitrate-N		1.35	0.165	0.500	mg/L		5					
Sulfate		79.0	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0905	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	2012	2978711	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	N	0.0473	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		32.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361UG3-26 Project: FRNP00714
Sample ID: 772658009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000897	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	14.6	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.23	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		42.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1235	2978711	11
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Boron		0.243	0.0104	0.0300	mg/L	1.00	2	MM12	04/27/26	2014	2978711	12
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1050	2978711	13
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0957	0.0319	0.0957	ug/L	0.000957	1	NS2	04/16/26	2203	2978968	14
Aroclor-1221	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-1232	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-1242	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-1248	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-1254	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-1260	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-1268	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Aroclor-Total	U	0.0957	0.0319	0.0957	ug/L	0.000957	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		283	2.38	10.0	mg/L			SC1	04/16/26	1117	2979067	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW361UG3-26 Project: FRNP00714
Sample ID: 772658009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	J	9.82	8.95	20.0	mg/L		1	BR2	05/12/26	1441	2992834	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1520	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361UG3-26	Project:	FRNP00714
Sample ID:	772658009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	1.93	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.380	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/28/26	1500	2981900
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361UG3-26	Project:	FRNP00714
Sample ID:	772658009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	4.16 ug/L	6.80	61	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.131 ug/L	0.191	68	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.128 ug/L	0.191	67	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	52.6 ug/L	50.0	105	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	53.6 ug/L	50.0	107	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW361UG3-26	Project:	FRNP00714
Sample ID:	772658010	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 08:36		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium	N	0.0501	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0054	2979009	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1237	2979009	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	JM13	04/16/26	0805	2978692
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979007

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW362UG3-26	Project:	FRNP00714
Sample ID:	772658011	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 09:45		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00852	0.0189	ug/L	0.946	1	LL2	04/17/26	2023	2978681	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.97	0.330	1.00	mg/L		1	KB3	04/21/26	1103	2978666	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	HUN	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	0952	2981901	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		15.5	3.33	10.0	ug/L		1	JW2	04/22/26	1554	2980946	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1557	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/15/26	1541	2978552	7
Chloride		1.54	0.0670	0.200	mg/L		1					
Fluoride		0.479	0.0330	0.100	mg/L		1					
Nitrate-N		0.511	0.132	0.400	mg/L		4	CH6	04/15/26	1910	2978552	8
Sulfate		31.3	0.532	1.60	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0907	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum		0.0679	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	2017	2978711	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	N	0.0807	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0208	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		18.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW362UG3-26 Project: FRNP00714
Sample ID: 772658011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00104	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0498	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	N	8.02	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000824	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.000613	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.311	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium		0.00218	0.0000670	0.000200	mg/L	1.00	1					
Zinc	J	0.00429	0.00330	0.0200	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1236	2978711	11
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Sodium		124	0.400	1.25	mg/L	1.00	5	MM12	04/27/26	2020	2978711	12
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1051	2978711	13
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.111	0.0369	0.111	ug/L	0.00111	1	NS2	04/16/26	2222	2978968	14
Aroclor-1221	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-1232	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-1242	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-1248	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-1254	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-1260	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-1268	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Aroclor-Total	U	0.111	0.0369	0.111	ug/L	0.00111	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		372	2.38	10.0	mg/L			SC1	04/16/26	1117	2979067	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW362UG3-26 Project: FRNP00714
Sample ID: 772658011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/12/26	1441	2992834	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1545	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW362UG3-26	Project:	FRNP00714
Sample ID:	772658011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	1.88	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/28/26	1500	2981900

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW362UG3-26	Project:	FRNP00714
Sample ID:	772658011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.98 ug/L	6.76	89	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.148 ug/L	0.222	67	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.167 ug/L	0.222	76	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	53.5 ug/L	50.0	107	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.0 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW362UG3-26	Project:	FRNP00714
Sample ID:	772658012	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	14-APR-26 09:45		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium	N	0.0822	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0057	2979009	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	B	0.00217	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1238	2979009	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	JM13	04/16/26	0805	2978692
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979007

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	RI1UG3-26	Project:	FRNP00714
Sample ID:	772658013	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	14-APR-26 06:45		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00856	0.0190	ug/L	0.951	1	LL2	04/17/26	2138	2978681	2
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1636	2981895	3
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0912	2979271	4
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	1924	2978711	5
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	UN	0.00400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	0.200	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	U	0.00200	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	UN	0.0300	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium	U	0.300	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium	U	0.250	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1245	2978711	6
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: RI1UG3-26 Project: FRNP00714
Sample ID: 772658013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1053	2978711	7
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0963	0.0321	0.0963	ug/L	0.000963	1	NS2	04/16/26	2240	2978968	8
Aroclor-1221	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1232	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1242	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1248	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1254	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1260	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-1268	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Aroclor-Total	U	0.0963	0.0321	0.0963	ug/L	0.000963	1					
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1454	2981799	9
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					

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Client Sample ID: RI1UG3-26 Project: FRNP00714
Sample ID: 772658013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	BJ	1.85	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	RI1UG3-26	Project:	FRNP00714
Sample ID:	772658013	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3535A/8082A	
9	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.13 ug/L	6.79	76	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.127 ug/L	0.193	66	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.127 ug/L	0.193	66	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	53.5 ug/L	50.0	107	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	52.5 ug/L	50.0	105	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.2 ug/L	50.0	98	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: TB1UG3-26
Sample ID: 772658014
Matrix: WATER
Collect Date: 14-APR-26 06:40
Receive Date: 15-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0188	0.00848	0.0188	ug/L	0.942	1	LL2	04/17/26	2213	2978681	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1611	2981799	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: TB1UG3-26 Project: FRNP00714
Sample ID: 772658014 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	2.03	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.04 ug/L	6.73	90	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	53.4 ug/L	50.0	107	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.1 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.9 ug/L	50.0	102	(89%-112%)

Notes:

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	TB1UG3-26	Project:	FRNP00714
Sample ID:	772658014	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	FB1UG3-26	Project:	FRNP00714
Sample ID:	772658015	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	14-APR-26 08:40		
Receive Date:	15-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0192	0.00864	0.0192	ug/L	0.960	1	LL2	04/17/26	2247	2978681	2
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1649	2981895	3
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0913	2979271	4
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	MM12	04/27/26	1927	2978711	5
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium	UN	0.00400	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	0.200	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	U	0.00200	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium	UN	0.0300	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium	U	0.300	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium	U	0.250	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Manganese	U	0.00500	0.00100	0.00500	mg/L	1.00	1	MM12	04/28/26	1227	2978711	6
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: FB1UG3-26 Project: FRNP00714
Sample ID: 772658015 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/04/26	1054	2978711	7
Tantalum	UN1	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0952	0.0317	0.0952	ug/L	0.000952	1	JXM	04/29/26	0952	2985991	8
Aroclor-1221	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-1232	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-1242	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-1248	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-1254	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-1260	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-1268	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Aroclor-Total	U	0.0952	0.0317	0.0952	ug/L	0.000952	1					
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/21/26	1637	2981799	9
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	FB1UG3-26	Project:	FRNP00714
Sample ID:	772658015	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	BJ	1.99	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	UY1	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/16/26	0830	2978710
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/28/26	1244	2985990
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/16/26	1214	2978942
SW846 8011 PREP	8011 Prep	LL2	04/17/26	1315	2978678
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	FB1UG3-26	Project:	FRNP00714
Sample ID:	772658015	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3535A/8082A	
9	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.39 ug/L	6.86	79	(59%-142%)
4cmx	8082A, PCB Liquids "As Received"	0.121 ug/L	0.190	63	(28%-114%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.114 ug/L	0.190	60	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.0 ug/L	50.0	108	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	52.0 ug/L	50.0	104	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.5 ug/L	50.0	103	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

ATTACHMENT C2

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW363UG3-26
Sample ID: 772950001
Matrix: WG
Collect Date: 15-APR-26
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0947	+/-0.416	0.753	+/-0.416	5.00	pCi/L			CM4	04/22/26	0857	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.675	+/-0.998	1.57	+/-1.01	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	0.122	+/-0.538	0.965	+/-0.539		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	3.28	+/-2.67	4.19	+/-2.81	4.99	pCi/L			DH1	05/12/26	0744	2992038	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-3.31	+/-2.69	5.78	+/-2.69	8.00	pCi/L			HH3	04/22/26	1708	2979883	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-1.24	+/-2.51	7.20	+/-2.51	15.0	pCi/L			HH3	04/22/26	1341	2979882	5
Beta	U	-0.0345	+/-5.45	10.4	+/-5.45	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	100	+/-97.1	154	+/-99.0	300	pCi/L			IT1	04/21/26	2342	2979164	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	0.763	+/-5.46	9.94	+/-5.46	25.0	pCi/L			BB3	05/10/26	0519	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	101	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	95.8	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2992038	86.3	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2979883	84.1	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	97.4	(30%-110%)

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW363UG3-26
Sample ID: 772950001

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW364UG3-26
Sample ID: 772950003
Matrix: WG
Collect Date: 15-APR-26
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.582	+/-0.681	0.728	+/-0.683	5.00	pCi/L			CM4	04/22/26	1048	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.415	+/-0.917	1.64	+/-0.922	50.0	pCi/L			SB3	04/22/26	0909	2979102	2
Thorium-232	U	-0.145	+/-0.371	1.08	+/-0.372		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	0.154	+/-2.59	4.87	+/-2.59	4.99	pCi/L			DH1	05/12/26	0924	2992038	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.0601	+/-2.20	4.21	+/-2.20	8.00	pCi/L			HH3	04/22/26	1708	2979883	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	2.31	+/-3.95	7.20	+/-3.97	15.0	pCi/L			HH3	04/22/26	1341	2979882	5
Beta		16.9	+/-7.07	9.54	+/-7.59	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	31.2	+/-81.8	156	+/-82.0	300	pCi/L			IT1	04/22/26	0003	2979164	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		52.7	+/-9.58	10.0	+/-11.3	25.0	pCi/L			BB3	05/10/26	0536	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	94	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	91.2	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2992038	87.8	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2979883	90.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	98	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW364UG3-26
Sample ID: 772950003

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW365UG3-26
Sample ID: 772950005
Matrix: WG
Collect Date: 15-APR-26
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.188	+/-0.283	0.439	+/-0.283	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.747	+/-1.13	1.79	+/-1.13	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	0.190	+/-0.596	0.859	+/-0.597		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		5.00	+/-2.90	4.22	+/-3.19	4.99	pCi/L			DH1	05/12/26	0744	2992038	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	4.17	+/-3.70	6.04	+/-3.75	8.00	pCi/L			HH3	04/22/26	1708	2979883	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.851	+/-3.52	8.46	+/-3.52	15.0	pCi/L			HH3	04/22/26	1341	2979882	5
Beta	U	2.43	+/-6.03	10.8	+/-6.05	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	127	+/-103	155	+/-106	300	pCi/L			IT1	04/22/26	0025	2979164	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	-2.01	+/-5.18	10.0	+/-5.18	25.0	pCi/L			BB3	05/10/26	0552	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	97.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	86.8	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2992038	87.6	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2979883	81.9	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	96.6	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW365UG3-26
Sample ID: 772950005

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW366UG3-26
Sample ID: 772950007
Matrix: WG
Collect Date: 15-APR-26
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.178	+/-0.256	0.309	+/-0.257	5.00	pCi/L			CM4	04/19/26	1230	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.0280	+/-0.683	1.55	+/-0.684	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	-0.0685	+/-0.404	0.995	+/-0.405		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	1.65	+/-2.45	4.27	+/-2.48	4.99	pCi/L			DH1	05/12/26	0744	2992038	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.0687	+/-2.37	4.53	+/-2.37	8.00	pCi/L			HH3	04/22/26	1708	2979883	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.867	+/-2.47	6.84	+/-2.48	15.0	pCi/L			HH3	04/22/26	1341	2979882	5
Beta		35.8	+/-9.54	11.4	+/-11.1	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	93.6	+/-97.7	158	+/-99.3	300	pCi/L			IT1	04/22/26	0047	2979164	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		75.0	+/-10.9	10.0	+/-13.8	25.0	pCi/L			BB3	05/10/26	0609	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	96.2	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	91.9	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2992038	90.3	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2979883	90.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	97.5	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW366UG3-26
Sample ID: 772950007

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW367UG3-26
Sample ID: 772950009
Matrix: WG
Collect Date: 15-APR-26
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.704	+/-0.732	0.772	+/-0.734	5.00	pCi/L			CM4	04/22/26	0857	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	-0.366	+/-0.618	1.80	+/-0.618	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	-0.0709	+/-0.425	1.04	+/-0.426		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	1.99	+/-2.01	3.28	+/-2.07	4.99	pCi/L			DH1	05/12/26	0744	2992038	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	1.08	+/-2.01	3.59	+/-2.02	8.00	pCi/L			HH3	04/22/26	1708	2979883	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.57	+/-4.06	7.90	+/-4.06	15.0	pCi/L			HH3	04/22/26	1341	2979882	5
Beta	U	4.57	+/-6.34	10.8	+/-6.39	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-22.0	+/-67.2	158	+/-67.2	300	pCi/L			IT1	04/22/26	0108	2979164	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	11.6	+/-11.1	18.6	+/-11.2	25.0	pCi/L			BB3	05/13/26	0944	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	96.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	88.3	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2992038	96.3	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2979883	79.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	98.2	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW367UG3-26
Sample ID: 772950009

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW375UG3-26
Sample ID: 772950011
Matrix: WG
Collect Date: 15-APR-26
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	-0.0370	+/-0.207	0.523	+/-0.207	5.00	pCi/L			CM4	04/22/26	0857	2979103	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.576	+/-1.03	1.71	+/-1.04	50.0	pCi/L			SB3	04/19/26	1228	2979102	2
Thorium-232	U	0.0874	+/-0.606	1.21	+/-0.607		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	2.96	+/-2.83	4.63	+/-2.94	4.99	pCi/L			DH1	05/12/26	0745	2992038	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-0.209	+/-2.88	5.47	+/-2.88	8.00	pCi/L			HH3	04/22/26	1708	2979883	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-0.180	+/-3.88	8.72	+/-3.89	15.0	pCi/L			HH3	04/22/26	1341	2979882	5
Beta	U	3.69	+/-6.46	11.3	+/-6.49	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	59.0	+/-86.2	151	+/-86.9	300	pCi/L			IT1	04/23/26	0425	2979164	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	-3.59	+/-5.15	10.3	+/-5.15	25.0	pCi/L			BB3	05/10/26	0642	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2979103	101	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2979102	86.6	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2992038	91.3	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2979883	77.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	96	(30%-110%)

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW375UG3-26
Sample ID: 772950011

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW363UG3-26
Sample ID: 772950001
Matrix: WG
Collect Date: 15-APR-26 07:37
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0200	0.00900	0.0200	ug/L	1.00	1	LOF	04/18/26	1543	2979491	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.05	0.330	1.00	mg/L		1	KB3	04/21/26	2012	2981374	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/27/26	1617	2983390	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	6.20	3.33	10.0	ug/L		1	RMJ	05/06/26	0010	2988848	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1702	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/16/26	1316	2979198	7
Fluoride		0.187	0.0330	0.100	mg/L		1					
Chloride		18.2	0.134	0.400	mg/L		2	CH6	04/16/26	2013	2979198	8
Nitrate-N		2.77	0.0660	0.200	mg/L		2					
Sulfate		26.3	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/23/26	1100	2982314	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum		0.0985	0.0193	0.0500	mg/L	1.00	1	PRB	05/14/26	1038	2979508	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.114	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		20.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000731	0.000300	0.00100	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW363UG3-26 Project: FRNP00714
Sample ID: 772950001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000724	0.000300	0.00200	mg/L	1.00	1					
Iron		0.122	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.22	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.114	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.0177	0.000600	0.00200	mg/L	1.00	1					
Potassium		1.94	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		38.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/12/26	1855	2979508	11
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Boron		0.0238	0.00520	0.0150	mg/L	1.00	1	PRB	05/13/26	1116	2979508	12
Molybdenum	J	0.000260	0.000200	0.00100	mg/L	1.00	1	PRB	05/14/26	1437	2979508	13
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0978	0.0326	0.0978	ug/L	0.000978	1	JXM	04/17/26	2212	2980043	14
Aroclor-1221	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-1232	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-1242	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-1248	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-1254	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-1260	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-1268	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Aroclor-Total	U	0.0978	0.0326	0.0978	ug/L	0.000978	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*B	189	2.38	10.0	mg/L			SC1	04/21/26	1543	2980118	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW363UG3-26 Project: FRNP00714
Sample ID: 772950001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	J	14.3	8.95	20.0	mg/L		1	BR2	05/13/26	1512	2992835	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1419	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW363UG3-26	Project:	FRNP00714
Sample ID:	772950001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	1.02	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.540	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/17/26	0800	2979507
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/22/26	1500	2982308
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/27/26	1550	2983389
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/17/26	1315	2980041

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW363UG3-26	Project:	FRNP00714
Sample ID:	772950001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.72 ug/L	6.78	99	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.123 ug/L	0.196	63	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.151 ug/L	0.196	77	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.5 ug/L	50.0	103	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.5 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW363UG3-26	Project:	FRNP00714
Sample ID:	772950002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	15-APR-26 07:37		
Receive Date:	16-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.106	0.000670	0.00400	mg/L	1.00	1	BAJ	04/20/26	2338	2979523	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1202	2979523	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979522
EPA 160	Laboratory Filtration	GF1	04/16/26	1415	2979178

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW364UG3-26
Sample ID: 772950003
Matrix: WG
Collect Date: 15-APR-26 08:27
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00860	0.0191	ug/L	0.955	1	LOF	04/18/26	1617	2979491	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.713	0.330	1.00	mg/L		1	KB3	04/21/26	2044	2981374	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/27/26	1618	2983390	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	5.00	3.33	10.0	ug/L		1	RMJ	05/09/26	0059	2990610	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1714	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.460	0.0670	0.200	mg/L		1	CH6	04/16/26	1334	2979198	7
Fluoride		0.147	0.0330	0.100	mg/L		1					
Chloride		38.1	0.335	1.00	mg/L		5	CH6	04/16/26	2031	2979198	8
Nitrate-N		1.38	0.165	0.500	mg/L		5					
Sulfate		67.9	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0932	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	05/14/26	1040	2979508	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0553	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW364UG3-26 Project: FRNP00714
Sample ID: 772950003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000778	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		14.6	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00485	0.00100	0.00500	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.06	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		41.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0193	0.00330	0.0200	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/12/26	1857	2979508	11
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Boron		0.212	0.0260	0.0750	mg/L	1.00	5	PRB	05/13/26	1118	2979508	12
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1	PRB	05/14/26	1438	2979508	13
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0947	0.0315	0.0947	ug/L	0.000947	1	JXM	04/17/26	2227	2980043	14
Aroclor-1221	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-1232	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-1242	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-1248	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-1254	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-1260	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-1268	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Aroclor-Total	U	0.0947	0.0315	0.0947	ug/L	0.000947	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*B	304	2.38	10.0	mg/L			SC1	04/21/26	1543	2980118	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW364UG3-26 Project: FRNP00714
Sample ID: 772950003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/13/26	1512	2992835	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1444	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW364UG3-26	Project:	FRNP00714
Sample ID:	772950003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	1.02	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.890	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/27/26	1550	2983389
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/17/26	1315	2980041
SW846 3005A	ICP-MS 3005A PREP	ES3	04/17/26	0800	2979507

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	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW364UG3-26	Project:	FRNP00714
Sample ID:	772950003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.08 ug/L	6.82	89	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.120 ug/L	0.189	64	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.149 ug/L	0.189	79	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.7 ug/L	50.0	109	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	56.4 ug/L	50.0	113	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.5 ug/L	50.0	103	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW364UG3-26	Project:	FRNP00714
Sample ID:	772950004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	15-APR-26 08:27		
Receive Date:	16-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0531	0.000670	0.00400	mg/L	1.00	1	BAJ	04/20/26	2341	2979523	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1203	2979523	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/16/26	1415	2979178
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979522

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW365UG3-26
Sample ID: 772950005
Matrix: WG
Collect Date: 15-APR-26 09:23
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0200	0.00900	0.0200	ug/L	1.00	1	LOF	04/18/26	1651	2979491	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.61	0.330	1.00	mg/L		1	KB3	04/21/26	2115	2981374	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/27/26	1619	2983390	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		23.1	3.33	10.0	ug/L		1	RMJ	05/09/26	0134	2990610	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1727	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/16/26	1351	2979198	7
Chloride		1.74	0.0670	0.200	mg/L		1					
Fluoride		0.362	0.0330	0.100	mg/L		1					
Nitrate-N		0.654	0.0330	0.100	mg/L		1					
Sulfate		50.4	0.665	2.00	mg/L		5	CH6	04/16/26	2048	2979198	8
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0933	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	J	0.0195	0.0193	0.0500	mg/L	1.00	1	PRB	05/14/26	1046	2979508	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0865	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		19.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00128	0.000300	0.00100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW365UG3-26 Project: FRNP00714
Sample ID: 772950005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper		0.00212	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.92	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00663	0.00100	0.00500	mg/L	1.00	1					
Nickel		0.00513	0.000600	0.00200	mg/L	1.00	1					
Potassium	J	0.264	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	J	0.0000760	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00342	0.00330	0.0200	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/12/26	1859	2979508	11
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Boron	J	0.00754	0.00520	0.0150	mg/L	1.00	1	PRB	05/13/26	1119	2979508	12
Sodium		54.6	0.800	2.50	mg/L	1.00	10	PRB	05/14/26	1049	2979508	13
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1	PRB	05/14/26	1440	2979508	14
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0958	0.0319	0.0958	ug/L	0.000958	1	JXM	04/17/26	2243	2980043	15
Aroclor-1221	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-1232	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-1242	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-1248	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-1254	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-1260	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-1268	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Aroclor-Total	U	0.0958	0.0319	0.0958	ug/L	0.000958	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*B	257	2.38	10.0	mg/L			SC1	04/21/26	1543	2980118	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW365UG3-26 Project: FRNP00714
Sample ID: 772950005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/13/26	1512	2992835	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1510	2981799	18
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW365UG3-26	Project:	FRNP00714
Sample ID:	772950005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.850	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/17/26	0800	2979507
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/27/26	1550	2983389
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/17/26	1315	2980041

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Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW365UG3-26	Project:	FRNP00714
Sample ID:	772950005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3535A/8082A	
16	EPA 160.1	
17	EPA 410.4	
18	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	4.90 ug/L	6.73	73	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0717 ug/L	0.192	37	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.123 ug/L	0.192	64	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	52.4 ug/L	50.0	105	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.5 ug/L	50.0	111	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	52.0 ug/L	50.0	104	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW365UG3-26	Project:	FRNP00714
Sample ID:	772950005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW365UG3-26	Project:	FRNP00714
Sample ID:	772950006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	15-APR-26 09:23		
Receive Date:	16-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0821	0.000670	0.00400	mg/L	1.00	1	BAJ	04/20/26	2344	2979523	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.000153	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1204	2979523	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/16/26	1415	2979178
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979522

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW366UG3-26
Sample ID: 772950007
Matrix: WG
Collect Date: 15-APR-26 10:12
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0190	0.00853	0.0190	ug/L	0.948	1	LOF	04/18/26	1725	2979491	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.792	0.330	1.00	mg/L		1	KB3	04/21/26	2147	2981374	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/27/26	1620	2983390	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	6.56	3.33	10.0	ug/L		1	RMJ	05/06/26	0249	2988848	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1740	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.475	0.0670	0.200	mg/L		1	CH6	04/16/26	1409	2979198	7
Fluoride		0.172	0.0330	0.100	mg/L		1					
Chloride		42.4	0.335	1.00	mg/L		5	CH6	04/16/26	2105	2979198	8
Nitrate-N		1.15	0.165	0.500	mg/L		5					
Sulfate		50.0	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0935	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	05/14/26	1043	2979508	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0981	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		33.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW366UG3-26 Project: FRNP00714
Sample ID: 772950007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000689	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		14.4	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00166	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.000674	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.09	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00308	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		47.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/12/26	1905	2979508	11
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Boron		0.101	0.00520	0.0150	mg/L	1.00	1	PRB	05/13/26	1120	2979508	12
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1	PRB	05/14/26	1441	2979508	13
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0975	0.0325	0.0975	ug/L	0.000975	1	JXM	04/17/26	2258	2980043	14
Aroclor-1221	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-1232	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-1242	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-1248	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-1254	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-1260	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-1268	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Aroclor-Total	U	0.0975	0.0325	0.0975	ug/L	0.000975	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*B	291	2.38	10.0	mg/L			SC1	04/21/26	1543	2980118	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW366UG3-26 Project: FRNP00714
Sample ID: 772950007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/13/26	1512	2992835	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1535	2981799	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW366UG3-26	Project:	FRNP00714
Sample ID:	772950007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.900	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.450	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 3005A	ICP-MS 3005A PREP	ES3	04/17/26	0800	2979507
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/17/26	1315	2980041
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/27/26	1550	2983389

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW366UG3-26	Project:	FRNP00714
Sample ID:	772950007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.61 ug/L	6.77	83	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.101 ug/L	0.195	52	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.115 ug/L	0.195	59	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.2 ug/L	50.0	108	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	56.0 ug/L	50.0	112	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.0 ug/L	50.0	102	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW366UG3-26	Project:	FRNP00714
Sample ID:	772950008	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	15-APR-26 10:12		
Receive Date:	16-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0972	0.000670	0.00400	mg/L	1.00	1	BAJ	04/20/26	2346	2979523	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1205	2979523	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979522
EPA 160	Laboratory Filtration	GF1	04/16/26	1415	2979178

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW367UG3-26
Sample ID: 772950009
Matrix: WG
Collect Date: 15-APR-26 12:13
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0200	0.00900	0.0200	ug/L	1.00	1	LOF	04/18/26	1800	2979491	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.549	0.330	1.00	mg/L		1	KB3	04/21/26	2219	2981374	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/27/26	1621	2983390	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	05/05/26	2201	2988848	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1753	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/16/26	1426	2979198	7
Fluoride	J	0.0854	0.0330	0.100	mg/L		1					
Nitrate-N	U	0.100	0.0330	0.100	mg/L		1					
Chloride		9.70	0.134	0.400	mg/L		2	CH6	04/16/26	2123	2979198	8
Sulfate		22.6	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0936	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	05/14/26	1058	2979508	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.128	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.2	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00634	0.000300	0.00100	mg/L	1.00	1					

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW367UG3-26 Project: FRNP00714
Sample ID: 772950009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000667	0.000300	0.00200	mg/L	1.00	1					
Iron		3.96	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		8.39	0.0100	0.0300	mg/L	1.00	1					
Nickel		0.00255	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.98	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		19.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0112	0.00330	0.0200	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/12/26	1907	2979508	11
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Boron		0.0259	0.00520	0.0150	mg/L	1.00	1	PRB	05/13/26	1124	2979508	12
Manganese		1.30	0.0100	0.0500	mg/L	1.00	10	PRB	05/14/26	1117	2979508	13
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1	PRB	05/14/26	1446	2979508	14
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0333	0.100	ug/L	0.00100	1	JXM	04/17/26	2313	2980043	15
Aroclor-1221	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1232	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1242	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1248	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1254	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1260	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1268	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-Total	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*B	128	2.38	10.0	mg/L			SC1	04/21/26	1543	2980118	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW367UG3-26 Project: FRNP00714
Sample ID: 772950009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/13/26	1512	2992835	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1601	2981799	18
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW367UG3-26	Project:	FRNP00714
Sample ID:	772950009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	0.990	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/17/26	0800	2979507
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/17/26	1315	2980041
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/27/26	1550	2983389
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW367UG3-26	Project:	FRNP00714
Sample ID:	772950009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3535A/8082A	
16	EPA 160.1	
17	EPA 410.4	
18	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.78 ug/L	6.74	101	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.129 ug/L	0.200	64	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.137 ug/L	0.200	68	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.0 ug/L	50.0	108	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.6 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.0 ug/L	50.0	102	(89%-112%)

Notes:

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW367UG3-26	Project:	FRNP00714
Sample ID:	772950009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW367UG3-26	Project:	FRNP00714
Sample ID:	772950010	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	15-APR-26 12:13		
Receive Date:	16-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.115	0.000670	0.00400	mg/L	1.00	1	BAJ	04/20/26	2355	2979523	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1208	2979523	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/16/26	1415	2979178
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979522

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW375UG3-26
Sample ID: 772950011
Matrix: WG
Collect Date: 15-APR-26 13:24
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0191	0.00859	0.0191	ug/L	0.954	1	LOF	04/19/26	1521	2979491	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.808	0.330	1.00	mg/L		1	KB3	04/21/26	2355	2981374	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	1636	2984411	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	7.52	3.33	10.0	ug/L		1	RMJ	05/06/26	0326	2988848	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/08/26	1831	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/16/26	1443	2979198	7
Chloride		3.64	0.0670	0.200	mg/L		1					
Fluoride		0.280	0.0330	0.100	mg/L		1					
Nitrate-N		1.00	0.0660	0.200	mg/L		2	CH6	04/16/26	2215	2979198	8
Sulfate		21.6	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/20/26	0943	2979271	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	J	0.0221	0.0193	0.0500	mg/L	1.00	1	PRB	05/14/26	1134	2979508	10
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.172	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		12.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW375UG3-26 Project: FRNP00714
Sample ID: 772950011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Copper	J	0.000702	0.000300	0.00200	mg/L	1.00	1					
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		5.24	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00231	0.00100	0.00500	mg/L	1.00	1					
Nickel	J	0.000970	0.000600	0.00200	mg/L	1.00	1					
Potassium	J	0.264	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00246	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/12/26	1918	2979508	11
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Boron	J	0.00765	0.00520	0.0150	mg/L	1.00	1	PRB	05/13/26	1130	2979508	12
Sodium		55.0	0.800	2.50	mg/L	1.00	10	PRB	05/14/26	1137	2979508	13
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1	PRB	05/14/26	1453	2979508	14
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0334	0.100	ug/L	0.00100	1	JXM	04/18/26	0000	2980043	15
Aroclor-1221	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-1232	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-1242	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-1248	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-1254	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-1260	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-1268	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Aroclor-Total	U	0.100	0.0334	0.100	ug/L	0.00100	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*B	259	2.38	10.0	mg/L			SC1	04/21/26	1543	2980118	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW375UG3-26 Project: FRNP00714
Sample ID: 772950011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/13/26	1512	2992835	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1627	2981799	18
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW375UG3-26	Project:	FRNP00714
Sample ID:	772950011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	1.01	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489
SW846 3005A	ICP-MS 3005A PREP	ES3	04/17/26	0800	2979507
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/17/26	1320	2979267
SW846 3535A	SW3535A PCB SPE Extraction	KC1	04/17/26	1315	2980041
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/29/26	1442	2984409

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW375UG3-26	Project:	FRNP00714
Sample ID:	772950011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3535A/8082A	
16	EPA 160.1	
17	EPA 410.4	
18	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.94 ug/L	6.82	102	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.101 ug/L	0.200	50	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.124 ug/L	0.200	62	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.5 ug/L	50.0	109	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	56.4 ug/L	50.0	113	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.1 ug/L	50.0	102	(89%-112%)

Notes:

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW375UG3-26	Project:	FRNP00714
Sample ID:	772950011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW375UG3-26	Project:	FRNP00714
Sample ID:	772950012	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	15-APR-26 13:24		
Receive Date:	16-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.173	0.000670	0.00400	mg/L	1.00	1	BAJ	04/21/26	0009	2979523	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	04/21/26	1213	2979523	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/16/26	1415	2979178
SW846 3005A	ICP-MS 3005A PREP	JB7	04/17/26	1540	2979522

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: TB2UG3-26
Sample ID: 772950013
Matrix: WATER
Collect Date: 15-APR-26 06:45
Receive Date: 16-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0200	0.00900	0.0200	ug/L	1.00	1	LOF	04/18/26	2017	2979491	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	04/22/26	1652	2981799	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	UY1	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	UY1	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: TB2UG3-26 Project: FRNP00714
Sample ID: 772950013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	BJ	1.05	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	UY1	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	UY1	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1311	2979489

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	8.19 ug/L	6.72	122	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	54.7 ug/L	50.0	109	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	55.7 ug/L	50.0	111	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.3 ug/L	50.0	103	(89%-112%)

Notes:

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	TB2UG3-26	Project:	FRNP00714
Sample ID:	772950013	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

ATTACHMENT C3

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW369UG3-26
Sample ID: 773198001
Matrix: WG
Collect Date: 16-APR-26
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.00586	+/-0.269	0.592	+/-0.269	5.00	pCi/L			JD3	04/25/26	0908	2980297	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.659	+/-1.03	1.67	+/-1.04	50.0	pCi/L			JW4	04/24/26	0813	2980298	2
Thorium-232	U	0.0795	+/-0.562	1.12	+/-0.563		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		7.86	+/-3.44	4.59	+/-4.03	4.99	pCi/L			DH1	05/02/26	0844	2980887	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.49	+/-2.99	6.17	+/-2.99	8.00	pCi/L			HH3	04/27/26	1635	2980839	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	-2.70	+/-3.83	10.1	+/-3.84	15.0	pCi/L			HH3	04/27/26	1754	2980858	5
Beta		44.9	+/-10.4	11.6	+/-12.7	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	137	+/-114	178	+/-117	300	pCi/L			IT1	04/27/26	1057	2980302	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		50.8	+/-9.34	9.78	+/-11.0	25.0	pCi/L			BB3	05/10/26	0659	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2980297	98.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2980298	72.9	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2980887	74.7	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2980839	62.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	98.2	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW369UG3-26
Sample ID: 773198001

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW370UG3-26
Sample ID: 773198003
Matrix: WG
Collect Date: 16-APR-26
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.579	+/-0.492	0.619	+/-0.494	5.00	pCi/L			JD3	04/25/26	0908	2980297	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.215	+/-0.752	1.44	+/-0.755	50.0	pCi/L			JW4	04/25/26	0904	2980298	2
Thorium-232	U	0.136	+/-0.537	1.03	+/-0.538		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		7.80	+/-3.38	4.86	+/-3.96	4.99	pCi/L			DH1	05/02/26	1227	2980887	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	0.0215	+/-1.99	3.90	+/-1.99	8.00	pCi/L			HH3	04/27/26	1635	2980839	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	6.48	+/-5.31	7.54	+/-5.56	15.0	pCi/L			HH3	04/27/26	1754	2980858	5
Beta	U	8.40	+/-6.63	10.5	+/-6.79	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-1.17	+/-89.1	179	+/-89.1	300	pCi/L			IT1	04/27/26	1118	2980302	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	13.4	+/-11.9	19.9	+/-12.0	25.0	pCi/L			BB3	05/13/26	0110	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2980297	98.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2980298	94	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2980887	77.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2980839	81.9	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	94.8	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW370UG3-26
Sample ID: 773198003

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW371UG3-26
Sample ID: 773198005
Matrix: WG
Collect Date: 16-APR-26
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.0962	+/-0.302	0.565	+/-0.302	5.00	pCi/L			JD3	04/25/26	0908	2980297	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.668	+/-0.821	1.21	+/-0.829	50.0	pCi/L			JW4	04/24/26	0813	2980298	2
Thorium-232	U	-0.0568	+/-0.303	0.761	+/-0.304		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228	U	4.37	+/-3.12	4.92	+/-3.33	4.99	pCi/L			DH1	05/02/26	1227	2980887	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-1.13	+/-3.05	5.80	+/-3.05	8.00	pCi/L			HH3	04/27/26	1635	2980839	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	3.97	+/-5.36	9.20	+/-5.47	15.0	pCi/L			HH3	04/27/26	1754	2980858	5
Beta	U	2.29	+/-6.05	10.9	+/-6.07	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	8.24	+/-91.0	179	+/-91.0	300	pCi/L			IT1	04/27/26	1140	2980302	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	3.10	+/-5.89	10.3	+/-5.90	25.0	pCi/L			BB3	05/10/26	0732	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2980297	102	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2980298	93	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2980887	76.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2980839	92.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	94.2	(30%-110%)

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Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW371UG3-26
Sample ID: 773198005

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
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Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW372UG3-26
Sample ID: 773198007
Matrix: WG
Collect Date: 16-APR-26
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.567	+/-0.491	0.600	+/-0.493	5.00	pCi/L			JD3	04/25/26	0908	2980297	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.779	+/-1.55	2.62	+/-1.56	50.0	pCi/L			JW4	04/24/26	0813	2980298	2
Thorium-232	U	-0.189	+/-0.707	1.93	+/-0.710		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		12.7	+/-3.94	4.87	+/-5.19	4.99	pCi/L			DH1	05/02/26	1227	2980887	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	0.666	+/-2.65	4.81	+/-2.65	8.00	pCi/L			HH3	04/27/26	1635	2980839	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	1.56	+/-4.94	9.69	+/-4.95	15.0	pCi/L			HH3	04/27/26	1754	2980858	5
Beta		43.8	+/-10.0	10.9	+/-13.8	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	101	+/-103	169	+/-105	300	pCi/L			IT1	04/29/26	1022	2980302	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99		53.7	+/-9.71	10.0	+/-11.5	25.0	pCi/L			BB3	05/10/26	0749	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2980297	94	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2980298	84.5	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2980887	75	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2980839	90.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	95.2	(30%-110%)

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Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW372UG3-26
Sample ID: 773198007

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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MDC: Minimum Detectable Concentration
Mtd.: Method
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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW373UG3-26
Sample ID: 773198009
Matrix: WG
Collect Date: 16-APR-26
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.370	+/-0.465	0.718	+/-0.466	5.00	pCi/L			JD3	04/25/26	0917	2980297	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	1.50	+/-1.38	1.77	+/-1.40	50.0	pCi/L			JW4	04/24/26	0816	2980298	2
Thorium-232	U	-0.0743	+/-0.454	1.11	+/-0.455		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		7.41	+/-3.41	4.92	+/-3.94	4.99	pCi/L			DH1	05/02/26	1227	2980887	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	1.15	+/-1.75	3.06	+/-1.76	8.00	pCi/L			HH3	04/27/26	1634	2980839	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	0.131	+/-4.83	10.5	+/-4.83	15.0	pCi/L			HH3	04/27/26	1754	2980858	5
Beta	U	7.99	+/-6.66	10.7	+/-6.78	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-4.19	+/-87.7	177	+/-87.7	300	pCi/L			IT1	04/27/26	1223	2980302	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	4.92	+/-5.98	10.1	+/-6.01	25.0	pCi/L			BB3	05/11/26	0838	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2980297	95.6	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2980298	81	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2980887	65.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2980839	92.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	96.6	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW373UG3-26
Sample ID: 773198009

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

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MDA: Minimum Detectable Activity
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Mtd.: Method
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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW374UG3-26
Sample ID: 773198011
Matrix: WG
Collect Date: 16-APR-26
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
AN-1418 AlphaSpec Ra226, Liquid "As Received"														
Radium-226	U	0.139	+/-0.603	1.18	+/-0.604	5.00	pCi/L			JD3	04/28/26	0900	2980297	1
Th-01-RC M, Th Isotopes, Liquid "As Received"														
Thorium-230	U	0.0604	+/-0.886	1.91	+/-0.888	50.0	pCi/L			JW4	04/24/26	0816	2980298	2
Thorium-232	U	0.171	+/-0.721	1.27	+/-0.722		pCi/L							
Rad Gas Flow Proportional Counting														
904.0Mod, Ra228, Liquid "As Received"														
Radium-228		5.84	+/-3.23	4.88	+/-3.59	4.99	pCi/L			DH1	05/02/26	1227	2980887	3
905.0Mod, Sr90, liquid "As Received"														
Strontium-90	U	-2.05	+/-1.86	4.16	+/-1.86	8.00	pCi/L			HH3	04/27/26	1635	2980839	4
9310, Alpha/Beta Activity, liquid "As Received"														
Alpha	U	4.30	+/-5.49	9.29	+/-5.54	15.0	pCi/L			HH3	04/27/26	1754	2980858	5
Beta	U	5.65	+/-6.46	10.8	+/-6.53	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
906.0M, Tritium Dist, Liquid "As Received"														
Tritium	U	-26.5	+/-83.6	179	+/-83.6	300	pCi/L			IT1	04/27/26	1245	2980302	6
Tc-02-RC-MOD, Tc99, Liquid "As Received"														
Technetium-99	U	2.39	+/-5.98	10.6	+/-5.98	25.0	pCi/L			BB3	05/10/26	0822	2980377	7

The following Analytical Methods were performed

Method	Description
1	Eichrom Industries, AN-1418
2	DOE EML HASL-300, Th-01-RC Modified
3	EPA 904.0/SW846 9320 Modified
4	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
5	EPA 900.0/SW846 9310
6	EPA 906.0 Modified
7	DOE EML HASL-300, Tc-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	AN-1418 AlphaSpec Ra226, Liquid "As Received"	2980297	85.9	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2980298	71.5	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2980887	69.2	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2980839	90.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2980377	92.1	(30%-110%)

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Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW374UG3-26
Sample ID: 773198011

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

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Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW369UG3-26
Sample ID: 773198001
Matrix: WG
Collect Date: 16-APR-26 07:42
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0188	0.00845	0.0188	ug/L	0.938	1	LOF	04/18/26	2241	2980372	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.949	0.330	1.00	mg/L		1	KB3	04/21/26	2307	2981377	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	1649	2984411	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		14.2	3.33	10.0	ug/L		1	SC1	05/06/26	1504	2990360	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/09/26	1204	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.323	0.0670	0.200	mg/L		1	CH6	04/17/26	1304	2980263	7
Fluoride		0.171	0.0330	0.100	mg/L		1					
Sulfate	N	7.64	0.133	0.400	mg/L		1					
Chloride		27.8	0.268	0.800	mg/L		4	CH6	04/17/26	1557	2980263	8
Nitrate-N		1.04	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/22/26	0815	2981559	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1	BAJ	05/13/26	2114	2980361	10
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.369	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0163	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		16.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00432	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00161	0.000300	0.00200	mg/L	1.00	1					

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW369UG3-26 Project: FRNP00714
Sample ID: 773198001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Iron	J	0.0978	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.09	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00472	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00265	0.000600	0.00200	mg/L	1.00	1					
Potassium	N	0.537	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00270	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00350	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00467	0.00330	0.0200	mg/L	1.00	1					
Aluminum		0.0697	0.0193	0.0500	mg/L	1.00	1	BAJ	05/12/26	1749	2980361	11
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1255	2980361	12
Sodium		52.3	0.800	2.50	mg/L	1.00	10	BAJ	05/13/26	2117	2980361	13
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/15/26	0856	2980361	14
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.102	0.0340	0.102	ug/L	0.00102	1	JXM	04/21/26	1556	2981469	15
Aroclor-1221	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-1232	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-1242	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-1248	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-1254	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-1260	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-1268	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Aroclor-Total	U	0.102	0.0340	0.102	ug/L	0.00102	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		285	2.38	10.0	mg/L			KLP1	04/23/26	1042	2983402	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW369UG3-26 Project: FRNP00714
Sample ID: 773198001 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/11/26	1644	2992837	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1329	2982814	18
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Certificate of Analysis

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW369UG3-26	Project:	FRNP00714
Sample ID:	773198001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.850	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/21/26	1515	2981557
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	04/21/26	0654	2981468
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/29/26	1442	2984409
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW369UG3-26	Project:	FRNP00714
Sample ID:	773198001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3535A/8082A	
16	EPA 160.1	
17	EPA 410.4	
18	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.99 ug/L	6.70	89	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.0963 ug/L	0.204	47	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.151 ug/L	0.204	74	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.4 ug/L	50.0	103	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.1 ug/L	50.0	100	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.1 ug/L	50.0	100	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW369UG3-26	Project:	FRNP00714
Sample ID:	773198001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW369UG3-26	Project:	FRNP00714
Sample ID:	773198002	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 07:42		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.360	0.000670	0.00400	mg/L	1.00	1	BAJ	05/13/26	2120	2980361	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1257	2980361	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/17/26	1330	2980237
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW370UG3-26
Sample ID: 773198003
Matrix: WG
Collect Date: 16-APR-26 08:32
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0187	0.00842	0.0187	ug/L	0.935	1	LOF	04/18/26	2315	2980372	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.790	0.330	1.00	mg/L		1	KB3	04/21/26	2339	2981377	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	1650	2984411	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	3.68	3.33	10.0	ug/L		1	SC1	05/06/26	1251	2990360	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/09/26	1217	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.503	0.0670	0.200	mg/L		1	CH6	04/17/26	1321	2980263	7
Fluoride		0.159	0.0330	0.100	mg/L		1					
Sulfate	N	19.6	0.133	0.400	mg/L		1					
Chloride		41.8	0.335	1.00	mg/L		5	CH6	04/17/26	1615	2980263	8
Nitrate-N		1.16	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/22/26	0823	2981559	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1	BAJ	05/13/26	2128	2980361	10
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.221	0.000670	0.00400	mg/L	1.00	1					
Boron		0.0749	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		26.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.000671	0.000300	0.00200	mg/L	1.00	1					

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW370UG3-26 Project: FRNP00714
Sample ID: 773198003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		12.0	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00147	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium	N	2.34	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		42.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BAJ	05/12/26	1800	2980361	11
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1300	2980361	12
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/15/26	0857	2980361	13
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0333	0.100	ug/L	0.00100	1	JXM	04/21/26	1611	2981469	14
Aroclor-1221	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1232	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1242	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1248	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1254	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1260	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-1268	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Aroclor-Total	U	0.100	0.0333	0.100	ug/L	0.00100	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		226	2.38	10.0	mg/L			KLP1	04/23/26	1042	2983402	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW370UG3-26 Project: FRNP00714
Sample ID: 773198003 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/11/26	1644	2992837	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1354	2982814	17
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW370UG3-26	Project:	FRNP00714
Sample ID:	773198003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene		1.13	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/21/26	1515	2981557
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/29/26	1442	2984409
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	04/21/26	0654	2981468
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW370UG3-26	Project:	FRNP00714
Sample ID:	773198003	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3535A/8082A	
15	EPA 160.1	
16	EPA 410.4	
17	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.61 ug/L	6.68	84	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.110 ug/L	0.200	55	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.144 ug/L	0.200	72	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.7 ug/L	50.0	99	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW370UG3-26	Project:	FRNP00714
Sample ID:	773198004	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 08:32		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.221	0.000670	0.00400	mg/L	1.00	1	BAJ	05/13/26	2142	2980361	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1304	2980361	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/17/26	1330	2980237
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW371UG3-26	Project:	FRNP00714
Sample ID:	773198005	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 09:34		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0188	0.00847	0.0188	ug/L	0.942	1	LOF	04/19/26	0059	2980372	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.80	0.330	1.00	mg/L		1	KB3	04/22/26	0114	2981377	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/29/26	1653	2984411	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		16.0	3.33	10.0	ug/L		1	SC1	05/06/26	1539	2990360	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/09/26	1255	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	04/17/26	1338	2980263	7
Chloride		3.01	0.0670	0.200	mg/L		1					
Fluoride		0.199	0.0330	0.100	mg/L		1					
Nitrate-N	U	0.100	0.0330	0.100	mg/L		1					
Sulfate	N	14.4	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/22/26	0829	2981559	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1	BAJ	05/13/26	2202	2980361	9
Arsenic	J	0.00222	0.00200	0.00500	mg/L	1.00	1					
Barium		0.159	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.000822	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0571	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW371UG3-26 Project: FRNP00714
Sample ID: 773198005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Magnesium		16.4	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00421	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000478	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00133	0.000600	0.00200	mg/L	1.00	1					
Potassium	N	0.313	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00570	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Aluminum		0.0587	0.0193	0.0500	mg/L	1.00	1	BAJ	05/12/26	1834	2980361	10
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Uranium		0.00162	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1312	2980361	11
Calcium		55.4	0.800	2.00	mg/L	1.00	10	BAJ	05/13/26	2205	2980361	12
Sodium		78.8	0.800	2.50	mg/L	1.00	10					
Boron	J	0.00658	0.00520	0.0150	mg/L	1.00	1	BAJ	05/14/26	1928	2980361	13
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/15/26	0905	2980361	14
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.106	0.0354	0.106	ug/L	0.00106	1	JXM	04/21/26	1657	2981469	15
Aroclor-1221	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-1232	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-1242	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-1248	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-1254	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-1260	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-1268	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Aroclor-Total	U	0.106	0.0354	0.106	ug/L	0.00106	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		356	2.38	10.0	mg/L			KLP1	04/23/26	1042	2983402	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW371UG3-26 Project: FRNP00714
Sample ID: 773198005 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/11/26	1644	2992837	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1420	2982814	18
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW371UG3-26	Project:	FRNP00714
Sample ID:	773198005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/21/26	1515	2981557
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/29/26	1442	2984409
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	04/21/26	0654	2981468

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW371UG3-26	Project:	FRNP00714
Sample ID:	773198005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 7470A	
9	SW846 3005A/6020B	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3535A/8082A	
16	EPA 160.1	
17	EPA 410.4	
18	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.57 ug/L	6.73	98	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.127 ug/L	0.213	60	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.163 ug/L	0.213	77	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.3 ug/L	50.0	103	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(89%-112%)

Notes:

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Company :	Four Rivers Nuclear Partnership, LLC
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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW371UG3-26	Project:	FRNP00714
Sample ID:	773198005	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW371UG3-26	Project:	FRNP00714
Sample ID:	773198006	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 09:34		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.156	0.000670	0.00400	mg/L	1.00	1	BAJ	05/13/26	2208	2980361	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	B	0.00157	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1314	2980361	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
EPA 160	Laboratory Filtration	GF1	04/17/26	1330	2980237

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW372UG3-26
Sample ID: 773198007
Matrix: WG
Collect Date: 16-APR-26 10:23
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0186	0.00836	0.0186	ug/L	0.929	1	LOF	04/19/26	0133	2980372	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.991	0.330	1.00	mg/L		1	KB3	04/22/26	0221	2981377	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/30/26	1356	2985985	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		17.5	3.33	10.0	ug/L		1	SC1	05/06/26	1631	2990360	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/09/26	1308	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.300	0.0670	0.200	mg/L		1	CH6	04/17/26	1355	2980263	7
Fluoride		0.185	0.0330	0.100	mg/L		1					
Chloride		36.1	0.335	1.00	mg/L		5	CH6	04/17/26	1707	2980263	8
Nitrate-N		0.999	0.165	0.500	mg/L		5					
Sulfate	N	151	2.66	8.00	mg/L		20	CH6	04/17/26	1724	2980263	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/22/26	0831	2981559	10
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1	BAJ	05/13/26	2210	2980361	11
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0469	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.000881	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0331	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW372UG3-26 Project: FRNP00714
Sample ID: 773198007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Magnesium		23.9	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00149	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00105	0.000600	0.00200	mg/L	1.00	1					
Potassium	N	2.01	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00244	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00438	0.00330	0.0200	mg/L	1.00	1					
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BAJ	05/12/26	1840	2980361	12
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1315	2980361	13
Calcium		67.7	0.800	2.00	mg/L	1.00	10	BAJ	05/13/26	2213	2980361	14
Sodium		67.7	0.800	2.50	mg/L	1.00	10					
Boron		1.32	0.0520	0.150	mg/L	1.00	10	BAJ	05/14/26	1930	2980361	15
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/15/26	0906	2980361	16
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.103	0.0344	0.103	ug/L	0.00103	1	JXM	04/21/26	1713	2981469	17
Aroclor-1221	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-1232	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-1242	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-1248	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-1254	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-1260	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-1268	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Aroclor-Total	U	0.103	0.0344	0.103	ug/L	0.00103	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		463	2.38	10.0	mg/L			KLP1	04/23/26	1042	2983402	18
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

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Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW372UG3-26 Project: FRNP00714
Sample ID: 773198007 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/11/26	1644	2992837	19
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1445	2982814	20
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW372UG3-26	Project:	FRNP00714
Sample ID:	773198007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.530	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	04/21/26	0654	2981468
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/21/26	1515	2981557
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/30/26	1139	2985982

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW372UG3-26	Project:	FRNP00714
Sample ID:	773198007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 9056A	
10	SW846 7470A	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3005A/6020B	
16	SW846 3005A/6020B	
17	SW846 3535A/8082A	
18	EPA 160.1	
19	EPA 410.4	
20	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.65 ug/L	6.64	85	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.150 ug/L	0.207	72	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.152 ug/L	0.207	74	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	52.4 ug/L	50.0	105	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	53.4 ug/L	50.0	107	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.2 ug/L	50.0	102	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW372UG3-26	Project:	FRNP00714
Sample ID:	773198007	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW372UG3-26	Project:	FRNP00714
Sample ID:	773198008	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 10:23		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0482	0.000670	0.00400	mg/L	1.00	1	BAJ	05/13/26	2216	2980361	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1316	2980361	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
EPA 160	Laboratory Filtration	GF1	04/17/26	1330	2980237

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW373UG3-26
Sample ID: 773198009
Matrix: WG
Collect Date: 16-APR-26 11:12
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0189	0.00851	0.0189	ug/L	0.946	1	LOF	04/19/26	0208	2980372	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		1.23	0.330	1.00	mg/L		1	KB3	04/22/26	0253	2981377	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/30/26	1359	2985985	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		10.9	3.33	10.0	ug/L		1	SC1	05/12/26	1036	2993505	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/09/26	1321	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.284	0.0670	0.200	mg/L		1	CH6	04/17/26	1413	2980263	7
Fluoride		0.182	0.0330	0.100	mg/L		1					
Nitrate-N		0.183	0.0330	0.100	mg/L		1					
Chloride		28.3	1.34	4.00	mg/L		20	CH6	04/17/26	1741	2980263	8
Sulfate	N	226	2.66	8.00	mg/L		20					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/22/26	0833	2981559	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1	BAJ	05/13/26	2219	2980361	10
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0273	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000473	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.000693	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0451	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					

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Certificate of Analysis

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW373UG3-26 Project: FRNP00714
Sample ID: 773198009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Magnesium		32.6	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0637	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00158	0.000600	0.00200	mg/L	1.00	1					
Potassium	N	2.83	0.0800	0.300	mg/L	1.00	1					
Selenium	U	0.00500	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00849	0.00330	0.0200	mg/L	1.00	1					
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	BAJ	05/12/26	1845	2980361	11
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Uranium	J	0.000104	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1319	2980361	12
Calcium		87.6	0.800	2.00	mg/L	1.00	10	BAJ	05/13/26	2222	2980361	13
Sodium		77.3	0.800	2.50	mg/L	1.00	10					
Boron		3.01	0.260	0.750	mg/L	1.00	50	BAJ	05/14/26	1931	2980361	14
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/15/26	0907	2980361	15
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0991	0.0330	0.0991	ug/L	0.000991	1	JXM	04/21/26	1728	2981469	16
Aroclor-1221	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1232	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1242	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1248	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1254	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1260	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-1268	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Aroclor-Total	U	0.0991	0.0330	0.0991	ug/L	0.000991	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		636	2.38	10.0	mg/L			KLP1	04/23/26	1042	2983402	17
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW373UG3-26 Project: FRNP00714
Sample ID: 773198009 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/11/26	1644	2992837	18
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1510	2982814	19
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW373UG3-26	Project:	FRNP00714
Sample ID:	773198009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	J	0.970	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	04/21/26	0654	2981468
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/30/26	1139	2985982
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/21/26	1515	2981557
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW373UG3-26	Project:	FRNP00714
Sample ID:	773198009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3005A/6020B	
16	SW846 3535A/8082A	
17	EPA 160.1	
18	EPA 410.4	
19	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.00 ug/L	6.75	104	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.131 ug/L	0.198	66	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.132 ug/L	0.198	67	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.2 ug/L	50.0	100	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.6 ug/L	50.0	103	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.2 ug/L	50.0	98	(89%-112%)

Notes:

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Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW373UG3-26	Project:	FRNP00714
Sample ID:	773198009	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW373UG3-26	Project:	FRNP00714
Sample ID:	773198010	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 11:12		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.0284	0.000670	0.00400	mg/L	1.00	1	BAJ	05/13/26	2230	2980361	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	BJ	0.000114	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1320	2980361	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/17/26	1330	2980237
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW374UG3-26
Sample ID: 773198011
Matrix: WG
Collect Date: 16-APR-26 12:44
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0187	0.00842	0.0187	ug/L	0.936	1	LOF	04/19/26	0242	2980372	2
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.17	0.330	1.00	mg/L		1	KB3	04/22/26	0325	2981377	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.00500	0.00167	0.00500	mg/L	1.00	1	CH9	04/30/26	1406	2985985	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		14.5	3.33	10.0	ug/L		1	SC1	05/12/26	1242	2993505	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	05/09/26	1334	2981895	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.403	0.0670	0.200	mg/L		1	CH6	04/17/26	1430	2980263	7
Fluoride		0.172	0.0330	0.100	mg/L		1					
Chloride		40.6	0.335	1.00	mg/L		5	CH6	04/17/26	1759	2980263	8
Nitrate-N		1.46	0.165	0.500	mg/L		5					
Sulfate	N	21.8	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	04/22/26	0834	2981559	9
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1	BAJ	05/13/26	2233	2980361	10
Arsenic	U	0.00500	0.00200	0.00500	mg/L	1.00	1					
Barium		0.129	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Calcium		23.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.000528	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0991	0.0330	0.100	mg/L	1.00	1					

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Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW374UG3-26 Project: FRNP00714
Sample ID: 773198011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		6.39	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0224	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Potassium	N	0.301	0.0800	0.300	mg/L	1.00	1					
Selenium		0.0156	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Aluminum	J	0.0196	0.0193	0.0500	mg/L	1.00	1	BAJ	05/12/26	1851	2980361	11
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1					
Uranium		0.000655	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1321	2980361	12
Sodium		126	0.800	2.50	mg/L	1.00	10	BAJ	05/13/26	2236	2980361	13
Boron	J	0.00980	0.00520	0.0150	mg/L	1.00	1	BAJ	05/14/26	1933	2980361	14
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1	PRB	05/15/26	0908	2980361	15
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.101	0.0336	0.101	ug/L	0.00101	1	JXM	04/21/26	1744	2981469	16
Aroclor-1221	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1232	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1242	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1248	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1254	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1260	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-1268	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Aroclor-Total	U	0.101	0.0336	0.101	ug/L	0.00101	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		372	2.38	10.0	mg/L			KLP1	04/23/26	1042	2983402	17
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

Report Date: July 7, 2026

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Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: MW374UG3-26 Project: FRNP00714
Sample ID: 773198011 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												
COD	U	20.0	8.95	20.0	mg/L		1	BR2	05/11/26	1644	2992837	18
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1535	2982814	19
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW374UG3-26	Project:	FRNP00714
Sample ID:	773198011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360
SW846 9010C Distillation	SW846 9010C Prep	GP1	04/30/26	1139	2985982
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	04/21/26	0654	2981468
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	04/21/26	1515	2981557

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW374UG3-26	Project:	FRNP00714
Sample ID:	773198011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 9060A	
4	SW846 9012B	
5	SW846 9020B	
6	EPA 300.0	
7	SW846 9056A	
8	SW846 9056A	
9	SW846 7470A	
10	SW846 3005A/6020B	
11	SW846 3005A/6020B	
12	SW846 3005A/6020B	
13	SW846 3005A/6020B	
14	SW846 3005A/6020B	
15	SW846 3005A/6020B	
16	SW846 3535A/8082A	
17	EPA 160.1	
18	EPA 410.4	
19	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.62 ug/L	6.68	84	(59%-142%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.142 ug/L	0.202	70	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.157 ug/L	0.202	78	(28%-114%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.0 ug/L	50.0	102	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.1 ug/L	50.0	102	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW374UG3-26	Project:	FRNP00714
Sample ID:	773198011	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Four Rivers Nuclear Partnership, LLC
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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	MW374UG3-26	Project:	FRNP00714
Sample ID:	773198012	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	16-APR-26 12:44		
Receive Date:	17-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
6020, Dissolved Metals (3 Elements) "As Received"												
Barium		0.120	0.000670	0.00400	mg/L	1.00	1	BAJ	05/13/26	2239	2980361	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	B	0.000634	0.0000670	0.000200	mg/L	1.00	1	BAJ	05/14/26	1322	2980361	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	04/17/26	1330	2980237
SW846 3005A	ICP-MS 3005A PREP	ES3	04/21/26	0815	2980360

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: TB3UG3-26
Sample ID: 773198013
Matrix: WATER
Collect Date: 16-APR-26 06:45
Receive Date: 17-APR-26
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
504.1/8011 Analysis of EDB/DBCP												
8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"												
1,2-Dibromo-3-chloropropane	U	0.0185	0.00833	0.0185	ug/L	0.926	1	LOF	04/19/26	0316	2980372	2
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	KE2	04/22/26	1601	2982814	3
1,1,1-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1,2-Trichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,1-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
1,2,3-Trichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dibromoethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloroethane	U	1.00	0.333	1.00	ug/L		1					
1,2-Dichloropropane	U	1.00	0.333	1.00	ug/L		1					
1,4-Dichlorobenzene	U	1.00	0.333	1.00	ug/L		1					
2-Butanone	U	5.00	1.67	5.00	ug/L		1					
2-Hexanone	U	5.00	1.67	5.00	ug/L		1					
4-Methyl-2-pentanone	U	5.00	1.67	5.00	ug/L		1					
Acetone	U	5.00	1.74	5.00	ug/L		1					
Acrolein	U	5.00	1.67	5.00	ug/L		1					
Acrylonitrile	U	5.00	1.67	5.00	ug/L		1					
Benzene	U	1.00	0.333	1.00	ug/L		1					
Bromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Bromodichloromethane	UY1	1.00	0.333	1.00	ug/L		1					
Bromoform	U	1.00	0.333	1.00	ug/L		1					
Bromomethane	U	1.00	0.337	1.00	ug/L		1					
Carbon disulfide	U	5.00	1.67	5.00	ug/L		1					
Carbon tetrachloride	U	1.00	0.333	1.00	ug/L		1					
Chlorobenzene	U	1.00	0.333	1.00	ug/L		1					
Chloroethane	U	1.00	0.333	1.00	ug/L		1					
Chloroform	U	1.00	0.333	1.00	ug/L		1					
Chloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromochloromethane	U	1.00	0.333	1.00	ug/L		1					
Dibromomethane	U	1.00	0.333	1.00	ug/L		1					
Ethylbenzene	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

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Project: C-746-U Landfill Quarterly(UG26-03)

Client Sample ID: TB3UG3-26 Project: FRNP00714
Sample ID: 773198013 Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	UY1	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					
Toluene	U	1.00	0.333	1.00	ug/L		1					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1					
Trichlorofluoromethane	U	1.00	0.333	1.00	ug/L		1					
Vinyl acetate	U	5.00	1.67	5.00	ug/L		1					
Vinyl chloride	U	1.00	0.333	1.00	ug/L		1					
Xylenes (total)	U	3.00	1.00	3.00	ug/L		1					
cis-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
cis-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,2-Dichloroethylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,3-Dichloropropylene	U	1.00	0.333	1.00	ug/L		1					
trans-1,4-Dichloro-2-butene	U	5.00	1.67	5.00	ug/L		1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8011 PREP	8011 Prep	LOF	04/18/26	1408	2980371

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8011	
3	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	5.24 ug/L	6.61	79	(59%-142%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	51.7 ug/L	50.0	103	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	52.6 ug/L	50.0	105	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(89%-112%)

Notes:

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Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Quarterly(UG26-03)

Client Sample ID:	TB3UG3-26	Project:	FRNP00714
Sample ID:	773198013	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

APPENDIX D

STATISTICAL ANALYSES AND QUALIFICATION STATEMENT

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GROUNDWATER STATISTICAL COMMENTS

Introduction

The statistical analyses conducted on the second quarter 2026 groundwater data collected from the C-746-U Contained Landfill monitoring wells (MWs) were performed in accordance with Permit GSTR0001, Standard Requirement 3, using the U.S. Environmental Protection Agency guidance document, *EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (1989). A statistician qualification statement has been provided for this analysis.

The statistical evaluation was conducted separately for the three groundwater systems: the Upper Continental Recharge System (UCRS), the Upper Regional Gravel Aquifer (URGA), and the Lower Regional Gravel Aquifer (LRGA). For each groundwater system, data from wells considered to represent background conditions were compared with test wells (downgradient or sidegradient wells) (Exhibit D.1). The second quarter 2026 data used to conduct the statistical analyses were collected in April 2026. The statistical analyses for this report first used data from the first eight quarters that had been sampled for each parameter to develop the historical background value, beginning with the first two baseline sampling events in 2002, when available. Then a second set of statistical analyses, using the last eight quarters (current background), was run on analytes that had at least one downgradient well that had exceeded the historical background. The sampling dates associated with both the historical and the current background data are listed next to the result in the statistical analysis sheets of this appendix.

Statistical Analysis Process

Constituents of concern that have Kentucky maximum contaminant levels (MCLs) and results that do not exceed their respective MCL are not included in the statistical evaluation. Parameters that have MCLs can be found in 401 *KAR* 47:030 § 6, *Maximum Groundwater Contaminant Levels*. For parameters with no established MCL and those parameters that exceed their MCLs, the most recent results are compared to historical background concentrations, as follows: the data are divided into censored and uncensored observations. The one-sided tolerance interval statistical test is conducted only on parameters that have at least one uncensored (detected) observation. The current result is compared to the results of the one-sided tolerance interval statistical test to determine if the current data exceed the historical background concentration calculated using the first eight quarters of data. The tolerance interval statistical analysis is conducted separately for each parameter in each well (no pooling of downgradient data).

For the statistical analysis of pH, a two-sided tolerance interval statistical test is conducted. The test well results are compared to both an upper tolerance limit (UTL) and lower tolerance limit (LTL) to determine if statistically significant deviations in concentrations exist with respect to upgradient (background) well data from the first eight quarters.

Statistical analyses are performed on the first eight quarters of historical background data, not on the data for the current quarter. Once a statistical result is obtained using the background data, the result for the current quarter is compared to that value. If the value is exceeded, the well is considered to have an exceedance of the statistically derived historical background concentration.

Exhibit D.1. Station Identification for Monitoring Wells Analyzed

Station	Type[a]	Groundwater Unit
MW357	TW	URGA
MW358	TW	LRGA
MW359[b,c]	TW	UCRS
MW360	TW	URGA
MW361	TW	LRGA
MW362[b]	TW	UCRS
MW363	TW	URGA
MW364	TW	LRGA
MW365[b]	TW	UCRS
MW366	TW	URGA
MW367	TW	LRGA
MW368[b,c]	TW	UCRS
MW369	BG	URGA
MW370	BG	LRGA
MW371[b]	BG	UCRS
MW372	BG	URGA
MW373	BG	LRGA
MW374[b]	BG	UCRS
MW375[b]	SG	UCRS
MW376[b,c]	SG	UCRS
MW377[b,c]	SG	UCRS

[a] BG: upgradient or background wells; TW: downgradient or test wells; SG: sidegradient wells.

[b] The gradients in UCRS wells are downward, and, hydrogeologically, UCRS wells are not considered upgradient, downgradient, or sidegradient from the C-746-U Contained Landfill. The UCRS wells identified as upgradient, sidegradient, or downgradient are those wells located in the same general direction as the LRGA and URGA wells considered to be upgradient, sidegradient, or downgradient.

[c] Well was dry this quarter, and a groundwater sample could not be collected.

For those parameters that are determined to exceed the historical background concentration, a second one-sided tolerance interval statistical test, or a two-sided tolerance interval statistical test in the case of pH, is conducted. The second one-sided tolerance interval statistical test is conducted to determine whether the current concentration in downgradient wells exceeds the current background, as determined by a comparison against the statistically derived UTL using the most recent eight quarters of data for the relevant background wells. For the statistical analysis of pH, a two-sided tolerance interval statistical test is conducted, if required. The test well pH results are compared to both UTL and LTL to determine if the current pH is different from the current background level to a statistically significant level. The tolerance interval statistical analysis is conducted separately for each parameter in each well (no pooling of downgradient data).

Statistical analyses are performed on the last eight quarters of current background data, not on the data for the current quarter. Once a statistical result is obtained using the background data, the result for the current quarter is compared to that value. If the value is exceeded, the well has an exceedance of the statistically derived current background concentration.

A stepwise list of the one-sided tolerance interval statistical procedure applied to the data is summarized below.[1]

1. The tolerance limit is calculated for the background data (first using the first eight quarters, then using the last eight quarters, if required).

    - For each parameter, the background data are used to establish a baseline. On this data set, the mean (X) and the standard deviation (S) are computed.

    - The data set is checked for normality using coefficient of variation (CV). If CV ≤ 1.0, then the data are assumed to be normally distributed. Data sets with CV > 1.0 are assumed to be log-normally distributed; for data sets with CV > 1.0, the data are log-transformed and analyzed.

    - The factor (K) for one-sided UTL with 95% minimum coverage is determined (Table 5, Appendix B, *EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance*, 1989) based on the number of background data points.

    - The one-sided UTL is calculated using the following equation:

        $$TL = X + (K \times S)$$

2. Each observation from downgradient wells is compared to the calculated one-sided UTL in Step 1. If an observation value exceeds the tolerance limit, then there is statistically significant evidence that the well concentration exceeds the historical background.

Type of Data Used

Exhibit D.1 presents the upgradient or background wells (identified as "BG"), the downgradient or test wells (identified as "TW"), and the sidegradient wells (identified as "SG") for the C-746-U Contained Landfill. Exhibit D.2 presents the parameters from the available data set for which a statistical test was performed using the one-sided tolerance interval.

Exhibits D.3, D.4, and D.5 list the number of analyses (observations), nondetects (censored observations), and detects (uncensored observations) by parameter in the UCRS, the URGA, and the LRGA, respectively. Those parameters displayed with bold-face type indicate the one-sided tolerance interval statistical test was performed. The data presented in Exhibits D.3, D.4, and D.5 were collected during the current quarter, second quarter 2026. The observations are representative of the current quarter data. Background data are presented in Attachments D1 and D2. The sampling dates associated with background data are listed next to the result in Attachments D1 and D2. When field duplicate data are available, the higher of the two readings is retained for further evaluation. When a data point has been rejected following data validation or data assessment, this result is not used, and the next available data point is used for the background or current quarter data.

[1] For pH, two-sided tolerance limits (upper and lower) were calculated with an adjusted K factor using the following equations: UTL = X + (K × S) and LTL = X - (K × S).

Exhibit D.2. List of Parameters Tested Using the One-Sided Upper Tolerance Level Test with Historical Background

Parameters
Aluminum
Boron
Bromide
Calcium
Chemical Oxygen Demand (COD)
Chloride
Cobalt
Conductivity
Copper
Dissolved Oxygen
Dissolved Solids
Iron
Magnesium
Manganese
Molybdenum
Nickel
Oxidation-Reduction Potential[a]
pH[b]
Potassium
Sodium
Sulfate
Technetium-99
Total Organic Carbon (TOC)
Total Organic Halides (TOX)
Vanadium
Zinc

[a] Oxidation-Reduction Potential calibrated as Eh.
[b] For pH, the test well results were compared to both UTL and LTL to determine if the current result differs to a statistically significant degree from the historical background values.

Exhibit D.3. Summary of Censored and Uncensored Data—UCRS

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
1,1,1,2-Tetrachloroethane	5	5	0	No
1,1,2,2-Tetrachloroethane	5	5	0	No
1,1,2-Trichloroethane	5	5	0	No
1,1-Dichloroethane	5	5	0	No
1,2,3-Trichloropropane	5	5	0	No
1,2-Dibromo-3-chloropropane	5	5	0	No
1,2-Dibromoethane	5	5	0	No
1,2-Dichlorobenzene	5	5	0	No
1,2-Dichloropropane	5	5	0	No
2-Butanone	5	5	0	No
2-Hexanone	5	5	0	No
4-Methyl-2-pentanone	5	5	0	No
Acetone	5	5	0	No
Acrolein	5	5	0	No
Acrylonitrile	5	5	0	No
Aluminum	**5**	**0**	**5**	**Yes**
Antimony	5	5	0	No
Beryllium	5	5	0	No
Boron	**5**	**0**	**5**	**Yes**
Bromide	**5**	**4**	**1**	**Yes**
Bromochloromethane	5	5	0	No
Bromodichloromethane	5	5	0	No
Bromoform	5	5	0	No
Bromomethane	5	5	0	No
Calcium	**5**	**0**	**5**	**Yes**
Carbon disulfide	5	5	0	No
Chemical Oxygen Demand (COD)	5	5	0	No
Chloride	**5**	**0**	**5**	**Yes**
Chlorobenzene	5	5	0	No
Chloroethane	5	5	0	No
Chloroform	5	5	0	No
Chloromethane	5	5	0	No
cis-1,2-Dichloroethene	5	5	0	No
cis-1,3-Dichloropropene	5	5	0	No
Cobalt	**5**	**4**	**1**	**Yes**
Conductivity	**5**	**0**	**5**	**Yes**
Copper	**5**	**0**	**5**	**Yes**
Cyanide	5	5	0	No
Dibromochloromethane	5	5	0	No
Dibromomethane	5	5	0	No
Dissolved Oxygen	**5**	**0**	**5**	**Yes**
Dissolved Solids	**5**	**0**	**5**	**Yes**
Ethylbenzene	5	5	0	No
Iodide	5	5	0	No
Iodomethane	5	5	0	No
Iron	**5**	**2**	**3**	**Yes**
Magnesium	**5**	**0**	**5**	**Yes**
Manganese	**5**	**1**	**4**	**Yes**
Methylene chloride	5	5	0	No
Molybdenum	**5**	**3**	**2**	**Yes**
Nickel	**5**	**1**	**4**	**Yes**
Oxidation-Reduction Potential	**5**	**0**	**5**	**Yes**
Polychlorinated biphenyl (PCB), Total	5	5	0	No

Exhibit D.3. Summary of Censored and Uncensored Data—UCRS (Continued)

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
PCB-1016	5	5	0	No
PCB-1221	5	5	0	No
PCB-1232	5	5	0	No
PCB-1242	5	5	0	No
PCB-1248	5	5	0	No
PCB-1254	5	5	0	No
PCB-1260	5	5	0	No
PCB-1268	5	5	0	No
pH	**5**	**0**	**5**	**Yes**
Potassium	**5**	**0**	**5**	**Yes**
Radium-226	5	5	0	No
Rhodium	5	5	0	No
Sodium	**5**	**0**	**5**	**Yes**
Styrene	5	5	0	No
Sulfate	**5**	**0**	**5**	**Yes**
Tantalum	5	5	0	No
Technetium-99	5	5	0	No
Tetrachloroethene	5	5	0	No
Thallium	5	5	0	No
Thorium-230	5	5	0	No
Toluene	5	5	0	No
Total Organic Carbon (TOC)	**5**	**0**	**5**	**Yes**
Total Organic Halides (TOX)	**5**	**0**	**5**	**Yes**
trans-1,2-Dichloroethene	5	5	0	No
trans-1,3-Dichloropropene	5	5	0	No
trans-1,4-Dichloro-2-Butene	5	5	0	No
Trichlorofluoromethane	5	5	0	No
Vanadium	**5**	**4**	**1**	**Yes**
Vinyl Acetate	5	5	0	No
Zinc	**5**	**2**	**3**	**Yes**

NOTE: Bold text denotes parameters with at least one uncensored observation.

Exhibit D.4. Summary of Censored and Uncensored Data—URGA

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
1,1,1,2-Tetrachloroethane	6	6	0	No
1,1,2,2-Tetrachloroethane	6	6	0	No
1,1,2-Trichloroethane	6	6	0	No
1,1-Dichloroethane	6	6	0	No
1,2,3-Trichloropropane	6	6	0	No
1,2-Dibromo-3-chloropropane	6	6	0	No
1,2-Dibromoethane	6	6	0	No
1,2-Dichlorobenzene	6	6	0	No
1,2-Dichloropropane	6	6	0	No
2-Butanone	6	6	0	No
2-Hexanone	6	6	0	No
4-Methyl-2-pentanone	6	6	0	No
Acetone	6	6	0	No
Acrolein	6	6	0	No
Acrylonitrile	6	6	0	No
Aluminum	**6**	**3**	**3**	**Yes**
Antimony	6	6	0	No
Beryllium	6	6	0	No
Boron	**6**	**0**	**6**	**Yes**
Bromide	**6**	**2**	**4**	**Yes**
Bromochloromethane	6	6	0	No
Bromodichloromethane	6	6	0	No
Bromoform	6	6	0	No
Bromomethane	6	6	0	No
Calcium	**6**	**0**	**6**	**Yes**
Carbon disulfide	6	6	0	No
COD	**6**	**5**	**1**	**Yes**
Chloride	**6**	**0**	**6**	**Yes**
Chlorobenzene	6	6	0	No
Chloroethane	6	6	0	No
Chloroform	6	6	0	No
Chloromethane	6	6	0	No
cis-1,2-Dichloroethene	6	6	0	No
cis-1,3-Dichloropropene	6	6	0	No
Cobalt	**6**	**3**	**3**	**Yes**
Conductivity	**6**	**0**	**6**	**Yes**
Copper	**6**	**0**	**6**	**Yes**
Cyanide	6	6	0	No
Dibromochloromethane	6	6	0	No
Dibromomethane	6	6	0	No
Dissolved Oxygen	**6**	**0**	**6**	**Yes**
Dissolved Solids	**6**	**0**	**6**	**Yes**
Ethylbenzene	6	6	0	No
Iodide	6	6	0	No
Iodomethane	6	6	0	No
Iron	**6**	**2**	**4**	**Yes**
Magnesium	**6**	**0**	**6**	**Yes**
Manganese	**6**	**1**	**5**	**Yes**
Methylene chloride	6	6	0	No
Molybdenum	6	6	0	No
Nickel	**6**	**1**	**5**	**Yes**
Oxidation-Reduction Potential	**6**	**0**	**6**	**Yes**
PCB, Total	6	6	0	No

Exhibit D.4. Summary of Censored and Uncensored Data—URGA (Continued)

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
PCB-1016	6	6	0	No
PCB-1221	6	6	0	No
PCB-1232	6	6	0	No
PCB-1242	6	6	0	No
PCB-1248	6	6	0	No
PCB-1254	6	6	0	No
PCB-1260	6	6	0	No
PCB-1268	6	6	0	No
pH	**6**	**0**	**6**	**Yes**
Potassium	**6**	**0**	**6**	**Yes**
Radium-226	6	6	0	No
Rhodium	6	6	0	No
Sodium	**6**	**0**	**6**	**Yes**
Styrene	6	6	0	No
Sulfate	**6**	**0**	**6**	**Yes**
Tantalum	6	6	0	No
Technetium-99	**6**	**2**	**4**	**Yes**
Tetrachloroethene	6	6	0	No
Thallium	6	6	0	No
Thorium-230	6	6	0	No
Toluene	6	6	0	No
Total Organic Carbon (TOC)	**6**	**0**	**6**	**Yes**
Total Organic Halides (TOX)	**6**	**0**	**6**	**Yes**
trans-1,2-Dichloroethene	6	6	0	No
trans-1,3-Dichloropropene	6	6	0	No
trans-1,4-Dichloro-2-Butene	6	6	0	No
Trichlorofluoromethane	6	6	0	No
Vanadium	**6**	**5**	**1**	**Yes**
Vinyl Acetate	6	6	0	No
Zinc	**6**	**2**	**4**	**Yes**

NOTE: Bold text denotes parameters with at least one uncensored observation.

Exhibit D.5. Summary of Censored and Uncensored Data—LRGA

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
1,1,1,2-Tetrachloroethane	6	6	0	No
1,1,2,2-Tetrachloroethane	6	6	0	No
1,1,2-Trichloroethane	6	6	0	No
1,1-Dichloroethane	6	6	0	No
1,2,3-Trichloropropane	6	6	0	No
1,2-Dibromo-3-chloropropane	6	6	0	No
1,2-Dibromoethane	6	6	0	No
1,2-Dichlorobenzene	6	6	0	No
1,2-Dichloropropane	6	6	0	No
2-Butanone	6	6	0	No
2-Hexanone	6	6	0	No
4-Methyl-2-pentanone	6	6	0	No
Acetone	6	6	0	No
Acrolein	6	6	0	No
Acrylonitrile	6	6	0	No
Aluminum	**6**	**5**	**1**	**Yes**
Antimony	6	6	0	No
Beryllium	6	6	0	No
Boron	**6**	**0**	**6**	**Yes**
Bromide	**6**	**1**	**5**	**Yes**
Bromochloromethane	6	6	0	No
Bromodichloromethane	6	6	0	No
Bromoform	6	6	0	No
Bromomethane	6	6	0	No
Calcium	**6**	**0**	**6**	**Yes**
Carbon disulfide	6	6	0	No
COD	**6**	**5**	**1**	**Yes**
Chloride	**6**	**0**	**6**	**Yes**
Chlorobenzene	6	6	0	No
Chloroethane	6	6	0	No
Chloroform	6	6	0	No
Chloromethane	6	6	0	No
cis-1,2-Dichloroethene	6	6	0	No
cis-1,3-Dichloropropene	6	6	0	No
Cobalt	**6**	**3**	**3**	**Yes**
Conductivity	**6**	**0**	**6**	**Yes**
Copper	**6**	**0**	**6**	**Yes**
Cyanide	6	6	0	No
Dibromochloromethane	6	6	0	No
Dibromomethane	6	6	0	No
Dissolved Oxygen	**6**	**0**	**6**	**Yes**
Dissolved Solids	**6**	**0**	**6**	**Yes**
Ethylbenzene	6	6	0	No
Iodide	6	6	0	No
Iodomethane	6	6	0	No
Iron	**6**	**3**	**3**	**Yes**
Magnesium	**6**	**0**	**6**	**Yes**
Manganese	**6**	**0**	**6**	**Yes**
Methylene chloride	6	6	0	No
Molybdenum	**6**	**5**	**1**	**Yes**
Nickel	**6**	**3**	**3**	**Yes**
Oxidation-Reduction Potential	**6**	**0**	**6**	**Yes**
PCB, Total	6	6	0	No

Exhibit D.5. Summary of Censored and Uncensored Data—LRGA (Continued)

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
PCB-1016	6	6	0	No
PCB-1221	6	6	0	No
PCB-1232	6	6	0	No
PCB-1242	6	6	0	No
PCB-1248	6	6	0	No
PCB-1254	6	6	0	No
PCB-1260	6	6	0	No
PCB-1268	6	6	0	No
pH	**6**	**0**	**6**	**Yes**
Potassium	**6**	**0**	**6**	**Yes**
Radium-226	6	6	0	No
Rhodium	6	6	0	No
Sodium	**6**	**0**	**6**	**Yes**
Styrene	6	6	0	No
Sulfate	**6**	**0**	**6**	**Yes**
Tantalum	6	6	0	No
Technetium-99	**6**	**3**	**3**	**Yes**
Tetrachloroethene	6	6	0	No
Thallium	6	6	0	No
Thorium-230	6	6	0	No
Toluene	6	6	0	No
Total Organic Carbon (TOC)	**6**	**0**	**6**	**Yes**
Total Organic Halides (TOX)	**6**	**1**	**5**	**Yes**
trans-1,2-Dichloroethene	6	6	0	No
trans-1,3-Dichloropropene	6	6	0	No
trans-1,4-Dichloro-2-Butene	6	6	0	No
Trichlorofluoromethane	6	6	0	No
Vanadium	6	6	0	No
Vinyl Acetate	6	6	0	No
Zinc	**6**	**2**	**4**	**Yes**

NOTE: Bold text denotes parameters with at least one uncensored observation.

Discussion of Results from Historical Background Comparison

For the UCRS, URGA, and LRGA, the concentrations of this quarter were compared to the results of the one-sided tolerance interval test calculated using historical background and are presented in Attachment D1. The statistician qualification statement is presented in Attachment D3. For the UCRS, URGA, and LRGA, the test was applied to 24, 25, and 25 parameters, respectively, including those listed in bold print in Exhibits D.3, D.4, and D.5, which include those constituents that exceeded their MCL. A summary of exceedances when compared to statistically derive historical upgradient background by well number is shown in Exhibit D.6.

UCRS

Because gradients in the UCRS are downward (vertical), there are no hydrogeologically downgradient UCRS wells; however, it should be noted that this quarter's results identified historical background exceedances for dissolved oxygen, oxidation-reduction potential, and sulfate.

URGA

This quarter's results identified historical background exceedances for calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, sulfate, and technetium-99.

LRGA

This quarter's results identified historical background exceedances for calcium, dissolved oxygen, dissolved solids, magnesium, oxidation-reduction potential, pH, and technetium-99.

Statistical Summary

Summaries of the results of the statistical tests conducted on data obtained from wells in the UCRS, the URGA, and in the LRGA in comparison to historical data are presented in Exhibit D.7, Exhibit D.8, and Exhibit D.9, respectively.

Exhibit D.6. Summary of Exceedances of Statistically Derived Historical Background Concentrations

UCRS	URGA	LRGA
MW362: Dissolved oxygen, oxidation-reduction potential,* and sulfate **MW365:** Dissolved oxygen, oxidation-reduction potential,* and sulfate **MW371:** Dissolved oxygen and oxidation-reduction potential* **MW374:** Oxidation-reduction potential* and sulfate **MW375:** Oxidation-reduction potential* and sulfate	**MW357:** Oxidation-reduction potential* **MW360:** Oxidation-reduction potential* **MW363:** Oxidation-reduction potential* **MW366:** Oxidation-reduction potential* and technetium-99 **MW369:** Oxidation-reduction potential* **MW372:** Calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,* and sulfate	**MW358:** Oxidation-reduction potential* **MW361:** Dissolved oxygen, oxidation-reduction potential,* and technetium-99 **MW364:** Oxidation-reduction potential* and technetium-99 **MW367:** Oxidation-reduction potential* and pH **MW370:** Dissolved oxygen and oxidation-reduction potential* **MW373:** Calcium, dissolved solids, magnesium, and oxidation-reduction potential*

*Oxidation-reduction potential calibrated as Eh.

Exhibit D.7. Test Summaries for Parameters for Historical Background—UCRS

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Aluminum	Tolerance Interval	2.08	No exceedance of statistically derived historical background concentration.
Boron	Tolerance Interval	1.24	No exceedance of statistically derived historical background concentration.
Bromide	Tolerance Interval	0.34	No exceedance of statistically derived historical background concentration.
Calcium	Tolerance Interval	0.40	No exceedance of statistically derived historical background concentration.
Chloride	Tolerance Interval	0.95	No exceedance of statistically derived historical background concentration.
Cobalt	Tolerance Interval	1.31	No exceedance of statistically derived historical background concentration.
Conductivity	Tolerance Interval	0.45	No exceedance of statistically derived historical background concentration.
Copper	Tolerance Interval	1.27	No exceedance of statistically derived historical background concentration.
Dissolved Oxygen	Tolerance Interval	0.55	Current results exceed statistically derived historical background concentration in MW362, MW365, and MW371.
Dissolved Solids	Tolerance Interval	0.42	No exceedance of statistically derived historical background concentration.
Iron	Tolerance Interval	0.98	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.27	No exceedance of statistically derived historical background concentration.
Manganese	Tolerance Interval	0.89	No exceedance of statistically derived historical background concentration.
Molybdenum	Tolerance Interval	1.65	No exceedance of statistically derived historical background concentration.
Nickel	Tolerance Interval	0.98	No exceedance of statistically derived historical background concentration.
Oxidation-Reduction Potential[b]	Tolerance Interval	3.54	Current results exceed statistically derived historical background concentration in MW362, MW365, MW371, MW374, and MW375.
pH	Tolerance Interval	0.04	No exceedance of statistically derived historical background concentration.
Potassium	Tolerance Interval	0.72	No exceedance of statistically derived historical background concentration.
Sodium	Tolerance Interval	0.40	No exceedance of statistically derived historical background concentration.
Sulfate	Tolerance Interval	0.49	Current results exceed statistically derived historical background concentration in MW362, MW365, MW374, and MW375.
TOC	Tolerance Interval	1.38	No exceedance of statistically derived historical background concentration.
TOX	Tolerance Interval	1.08	No exceedance of statistically derived historical background concentration.
Vanadium	Tolerance Interval	1.32	No exceedance of statistically derived historical background concentration.
Zinc	Tolerance Interval	1.38	No exceedance of statistically derived historical background concentration.

[a] If CV is > 1.0, used log-transformed data.
[b] Oxidation-reduction potential calibrated as Eh.

Exhibit D.8. Test Summaries for Parameters for Historical Background—URGA

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Aluminum	Tolerance Interval	1.24	No exceedance of statistically derived historical background concentration.
Boron	Tolerance Interval	0.84	No exceedance of statistically derived historical background concentration.
Bromide	Tolerance Interval	0.00	No exceedance of statistically derived historical background concentration.
Calcium	Tolerance Interval	0.29	Current results exceed statistically derived historical background concentration in MW372.
COD	Tolerance Interval	0.10	No exceedance of statistically derived historical background concentration.
Chloride	Tolerance Interval	0.10	No exceedance of statistically derived historical background concentration.
Cobalt	Tolerance Interval	0.84	No exceedance of statistically derived historical background concentration.
Conductivity	Tolerance Interval	0.12	Current results exceed statistically derived historical background concentration in MW372.
Copper	Tolerance Interval	0.40	No exceedance of statistically derived historical background concentration.
Dissolved Oxygen	Tolerance Interval	0.76	No exceedance of statistically derived historical background concentration.
Dissolved Solids	Tolerance Interval	0.16	Current results exceed statistically derived historical background concentration in MW372.
Iron	Tolerance Interval	0.95	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.27	Current results exceed statistically derived historical background concentration in MW372.
Manganese	Tolerance Interval	0.66	No exceedance of statistically derived historical background concentration.
Nickel	Tolerance Interval	0.91	No exceedance of statistically derived historical background concentration.
Oxidation-Reduction Potential[b]	Tolerance Interval	1.26	Current results exceed statistically derived historical background concentration in MW357, MW360, MW363, MW366, MW369, and MW372.
pH	Tolerance Interval	0.03	No exceedance of statistically derived historical background concentration.
Potassium	Tolerance Interval	0.29	No exceedance of statistically derived historical background concentration.
Sodium	Tolerance Interval	0.26	No exceedance of statistically derived historical background concentration.
Sulfate	Tolerance Interval	0.75	Current results exceed statistically derived historical background concentration in MW372.
Technetium-99	Tolerance Interval	0.87	Current results exceed statistically derived historical background concentration in MW366.
TOC	Tolerance Interval	1.23	No exceedance of statistically derived historical background concentration.
TOX	Tolerance Interval	0.95	No exceedance of statistically derived historical background concentration.
Vanadium	Tolerance Interval	0.26	No exceedance of statistically derived historical background concentration.
Zinc	Tolerance Interval	1.49	No exceedance of statistically derived historical background concentration.

[a] If CV is > 1.0, used log-transformed data.
[b] Oxidation-reduction potential calibrated as Eh.

Exhibit D.9. Test Summaries for Parameters for Historical Background—LRGA

Parameter	Performed Test	CV Normality Test[a]	Results of Tolerance Interval Test Conducted
Aluminum	Tolerance Interval	2.78	No exceedance of statistically derived historical background concentration.
Boron	Tolerance Interval	0.68	No exceedance of statistically derived historical background concentration.
Bromide	Tolerance Interval	0.00	No exceedance of statistically derived historical background concentration.
Calcium	Tolerance Interval	0.31	Current results exceed statistically derived historical background concentration in MW373.
COD	Tolerance Interval	0.59	No exceedance of statistically derived historical background concentration.
Chloride	Tolerance Interval	0.16	No exceedance of statistically derived historical background concentration.
Cobalt	Tolerance Interval	1.16	No exceedance of statistically derived historical background concentration.
Conductivity	Tolerance Interval	0.26	No exceedance of statistically derived historical background concentration.
Copper	Tolerance Interval	0.40	No exceedance of statistically derived historical background concentration.
Dissolved Oxygen	Tolerance Interval	0.83	Current results exceed statistically derived historical background concentration in MW361 and MW370.
Dissolved Solids	Tolerance Interval	0.30	Current results exceed statistically derived historical background concentration in MW373.
Iron	Tolerance Interval	0.96	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.34	Current results exceed statistically derived historical background concentration in MW373.
Manganese	Tolerance Interval	0.62	No exceedance of statistically derived historical background concentration.
Molybdenum	Tolerance Interval	1.20	No exceedance of statistically derived historical background concentration.
Nickel	Tolerance Interval	0.90	No exceedance of statistically derived historical background concentration.
Oxidation-Reduction Potential[b]	Tolerance Interval	1.31	Current results exceed statistically derived historical background concentration in MW358, MW361, MW364, MW367, MW370, and MW373.
pH	Tolerance Interval	0.03	Current results exceed statistically derived historical background concentration in MW367.
Potassium	Tolerance Interval	0.18	No exceedance of statistically derived historical background concentration.
Sodium	Tolerance Interval	0.30	No exceedance of statistically derived historical background concentration.
Sulfate	Tolerance Interval	1.59	No exceedance of statistically derived historical background concentration.
Technetium-99	Tolerance Interval	1.73	Current results exceed statistically derived historical background concentration in MW361 and MW364.
TOC	Tolerance Interval	1.96	No exceedance of statistically derived historical background concentration.
TOX	Tolerance Interval	0.98	No exceedance of statistically derived historical background concentration.
Zinc	Tolerance Interval	0.67	No exceedance of statistically derived historical background concentration.

[a] If CV is > 1.0, used log-transformed data.
[b] Oxidation-reduction potential calibrated as Eh.

Discussion of Results from Current Background Comparison

For concentrations in wells in the UCRS, URGA, and LRGA that exceeded the tolerance limit test using historical background, the concentrations were compared to the results of the one-sided tolerance interval test compared to current background, and are presented in Attachment D2. The statistician qualification statement is presented in Attachment D3. For the UCRS, URGA, and LRGA, the test was applied to 3, 7, and 7 parameters, respectively, because these parameter concentrations exceeded the historical background tolerance limit.

UCRS

Because gradients in the UCRS are downward (vertical), there are no hydrogeologically downgradient UCRS wells. It should be noted; however, that this quarter's results identified current background UTL exceedances in downgradient well MW365 for dissolved oxygen and sulfate.

URGA

This quarter's results did not identify any current background UTL exceedances in downgradient URGA wells.

LRGA

This quarter's results identified current background UTL exceedances in downgradient LRGA wells MW361 and MW364 for technetium-99.

Statistical Summary

Summaries of the statistical tests conducted on data obtained from wells in the UCRS, the URGA, and the LRGA are presented in Exhibit D.10, Exhibit D.11, and Exhibit D.12, respectively.

Exhibit D.10. Test Summaries for Parameters for Current Background—UCRS

Parameter	Performed Test	CV Normality Test	Results of Tolerance Interval Test Conducted
Dissolved Oxygen	Tolerance Interval	0.51	MW365 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Oxidation-Reduction Potential*	Tolerance Interval	0.12	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Sulfate	Tolerance Interval	0.49	MW365 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.

*Oxidation-reduction potential calibrated as Eh.

Exhibit D.11. Test Summaries for Parameters for Current Background—URGA

Parameter	Performed Test	CV Normality Test	Results of Tolerance Interval Test Conducted
Calcium	Tolerance Interval	0.62	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Conductivity	Tolerance Interval	0.37	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Dissolved Solids	Tolerance Interval	0.42	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Magnesium	Tolerance Interval	0.55	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Oxidation-Reduction Potential*	Tolerance Interval	0.12	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Sulfate	Tolerance Interval	0.91	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Technetium-99	Tolerance Interval	0.49	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.

*Oxidation-reduction potential calibrated as Eh.

Exhibit D.12. Test Summaries for Parameters for Current Background—LRGA

Parameter	Performed Test	CV Normality Test	Results of Tolerance Interval Test Conducted
Calcium	Tolerance Interval	0.52	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Dissolved Oxygen	Tolerance Interval	0.49	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Dissolved Solids	Tolerance Interval	0.49	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Magnesium	Tolerance Interval	0.46	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Oxidation-Reduction Potential*	Tolerance Interval	0.13	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
pH	Tolerance Interval	0.03	None of the test wells exceeded the UTL, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically significant level.
Technetium-99	Tolerance Interval	1.52	MW361 and MW364 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.

*Oxidation-reduction potential calibrated as Eh.

ATTACHMENT D1

COMPARISON OF CURRENT DATA TO ONE-SIDED UPPER TOLERANCE INTERVAL TEST CALCULATED USING HISTORICAL BACKGROUND DATA

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C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Aluminum UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 3.300	**S=** 6.859	**CV(1)=** 2.078	**K factor**=** 2.523	**TL(1)=** 2.06E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.371	**S=** 1.678	**CV(2)=** -4.521	**K factor**=** 2.523	**TL(2)=** 3.86E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.24E+00	8.06E-01
4/22/2002	2.00E-01	-1.61E+00
7/15/2002	2.00E-01	-1.61E+00
10/8/2002	2.00E-01	-1.61E+00
1/8/2003	2.00E-01	-1.61E+00
4/3/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-01	-1.61E+00
10/6/2003	2.00E-01	-1.61E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.13E+01	3.06E+00
1/7/2003	2.00E+01	3.00E+00
4/2/2003	4.11E+00	1.41E+00
7/9/2003	1.41E+00	3.44E-01
10/7/2003	1.09E+00	8.62E-02
1/6/2004	8.54E-01	-1.58E-01
4/7/2004	2.00E-01	-1.61E+00
7/14/2004	2.00E-01	-1.61E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	6.79E-02	N/A	-2.69E+00	NO
MW365	Downgradient	Yes	1.95E-02	N/A	-3.94E+00	NO
MW371	Upgradient	Yes	5.87E-02	N/A	-2.84E+00	NO
MW374	Upgradient	Yes	1.96E-02	N/A	-3.93E+00	NO
MW375	Sidegradient	Yes	2.21E-02	N/A	-3.81E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Boron **UNITS: mg/L** **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.650	**S=** 0.805	**CV(1)=** 1.238	**K factor**=** 2.523	**TL(1)=** 2.68E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.034	**S=** 1.030	**CV(2)=** -0.996	**K factor**=** 2.523	**TL(2)=** 1.56E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/22/2002	2.00E+00	6.93E-01
7/15/2002	2.00E+00	6.93E-01
10/8/2002	2.00E-01	-1.61E+00
1/8/2003	2.00E-01	-1.61E+00
4/3/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-01	-1.61E+00
10/6/2003	2.00E-01	-1.61E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.00E+00	6.93E-01
1/7/2003	2.00E-01	-1.61E+00
4/2/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-01	-1.61E+00
10/7/2003	2.00E-01	-1.61E+00
1/6/2004	2.00E-01	-1.61E+00
4/7/2004	2.00E-01	-1.61E+00
7/14/2004	2.00E-01	-1.61E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	2.08E-02	N/A	-3.87E+00	NO
MW365	Downgradient	Yes	7.54E-03	N/A	-4.89E+00	NO
MW371	Upgradient	Yes	6.58E-03	N/A	-5.02E+00	NO
MW374	Upgradient	Yes	9.80E-03	N/A	-4.63E+00	NO
MW375	Sidegradient	Yes	7.65E-03	N/A	-4.87E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Bromide UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.394	**S=** 0.474	**CV(1)=** 0.340	**K factor**=** 2.523	**TL(1)=** 2.59E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.279	**S=** 0.332	**CV(2)=** 1.190	**K factor**=** 2.523	**TL(2)=** 1.12E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.00E+00	0.00E+00
4/22/2002	1.00E+00	0.00E+00
7/15/2002	1.00E+00	0.00E+00
10/8/2002	1.00E+00	0.00E+00
1/8/2003	1.00E+00	0.00E+00
4/3/2003	1.00E+00	0.00E+00
7/9/2003	1.00E+00	0.00E+00
10/6/2003	1.00E+00	0.00E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.10E+00	7.42E-01
1/7/2003	2.10E+00	7.42E-01
4/2/2003	1.90E+00	6.42E-01
7/9/2003	1.00E+00	0.00E+00
10/7/2003	1.90E+00	6.42E-01
1/6/2004	1.90E+00	6.42E-01
4/7/2004	1.80E+00	5.88E-01
7/14/2004	1.60E+00	4.70E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW365	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW371	Upgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW374	Upgradient	Yes	4.03E-01	NO	-9.09E-01	N/A
MW375	Sidegradient	No	2.00E-01	N/A	-1.61E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Calcium UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 34.100	**S=** 13.637	**CV(1)=** 0.400	**K factor**=** 2.523	**TL(1)=** 6.85E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.466	**S=** 0.356	**CV(2)=** 0.103	**K factor**=** 2.523	**TL(2)=** 4.36E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.72E+01	2.84E+00
4/22/2002	2.24E+01	3.11E+00
7/15/2002	2.55E+01	3.24E+00
10/8/2002	2.64E+01	3.27E+00
1/8/2003	2.72E+01	3.30E+00
4/3/2003	3.03E+01	3.41E+00
7/9/2003	2.59E+01	3.25E+00
10/6/2003	2.70E+01	3.30E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	6.73E+01	4.21E+00
1/7/2003	6.06E+01	4.10E+00
4/2/2003	4.72E+01	3.85E+00
7/9/2003	3.47E+01	3.55E+00
10/7/2003	3.71E+01	3.61E+00
1/6/2004	3.77E+01	3.63E+00
4/7/2004	3.22E+01	3.47E+00
7/14/2004	2.69E+01	3.29E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	1.88E+01	NO	2.93E+00	N/A
MW365	Downgradient	Yes	1.90E+01	NO	2.94E+00	N/A
MW371	Upgradient	Yes	5.54E+01	NO	4.01E+00	N/A
MW374	Upgradient	Yes	2.34E+01	NO	3.15E+00	N/A
MW375	Sidegradient	Yes	1.28E+01	NO	2.55E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Chloride UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 91.300	**S=** 86.959	**CV(1)=** 0.952	**K factor**=** 2.523	**TL(1)=** 3.11E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.620	**S=** 1.590	**CV(2)=** 0.439	**K factor**=** 2.523	**TL(2)=** 7.63E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
7/15/2002	8.30E+00	2.12E+00
10/8/2002	7.60E+00	2.03E+00
1/8/2003	7.70E+00	2.04E+00
4/3/2003	8.80E+00	2.17E+00
7/9/2003	8.10E+00	2.09E+00
10/6/2003	8.60E+00	2.15E+00
1/7/2004	7.60E+00	2.03E+00
4/6/2004	7.60E+00	2.03E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	1.99E+02	5.29E+00
1/7/2003	2.00E+02	5.30E+00
4/2/2003	1.72E+02	5.15E+00
7/9/2003	1.79E+02	5.19E+00
10/7/2003	1.76E+02	5.17E+00
1/6/2004	1.70E+02	5.14E+00
4/7/2004	1.56E+02	5.05E+00
7/14/2004	1.45E+02	4.97E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	1.54E+00	NO	4.32E-01	N/A
MW365	Downgradient	Yes	1.74E+00	NO	5.54E-01	N/A
MW371	Upgradient	Yes	3.01E+00	NO	1.10E+00	N/A
MW374	Upgradient	Yes	4.06E+01	NO	3.70E+00	N/A
MW375	Sidegradient	Yes	3.64E+00	NO	1.29E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Cobalt UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.007	**S=** 0.009	**CV(1)=** 1.314	**K factor**=** 2.523	**TL(1)=** 3.12E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.843	**S=** 1.392	**CV(2)=** -0.238	**K factor**=** 2.523	**TL(2)=** -2.33E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.50E-02	-3.69E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	1.00E-03	-6.91E+00
1/8/2003	1.00E-03	-6.91E+00
4/3/2003	1.00E-03	-6.91E+00
7/9/2003	1.00E-03	-6.91E+00
10/6/2003	1.00E-03	-6.91E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	1.00E-02	-4.61E+00
1/7/2003	1.00E-02	-4.61E+00
4/2/2003	1.00E-02	-4.61E+00
7/9/2003	1.61E-03	-6.43E+00
10/7/2003	1.00E-03	-6.91E+00
1/6/2004	1.00E-03	-6.91E+00
4/7/2004	1.00E-03	-6.91E+00
7/14/2004	1.00E-03	-6.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW365	Downgradient	Yes	1.28E-03	N/A	-6.66E+00	NO
MW371	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW374	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW375	Sidegradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Conductivity UNITS: umho/cm UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 918.744	**S=** 417.257	**CV(1)=** 0.454	**K factor**=** 2.523	**TL(1)=** 1.97E+03	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.705	**S=** 0.550	**CV(2)=** 0.082	**K factor**=** 2.523	**TL(2)=** 8.09E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	5.41E+02	6.29E+00
4/22/2002	6.43E+02	6.47E+00
7/15/2002	6.32E+02	6.45E+00
10/8/2002	6.31E+02	6.45E+00
1/8/2003	6.80E+02	6.52E+00
4/3/2003	7.49E+02	6.62E+00
7/9/2003	7.34E+02	6.60E+00
10/6/2003	7.53E+02	6.62E+00

Well Number: MW374

Date Collected	Result	LN(Result)
3/18/2002	1.01E+03	6.91E+00
10/8/2002	1.68E+03	7.43E+00
1/7/2003	1.72E+03	7.45E+00
4/2/2003	1.72E+02	5.15E+00
7/9/2003	1.23E+03	7.12E+00
10/7/2003	1.21E+03	7.10E+00
1/6/2004	1.17E+03	7.07E+00
4/7/2004	1.15E+03	7.04E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	6.32E+02	NO	6.45E+00	N/A
MW365	Downgradient	Yes	3.86E+02	NO	5.96E+00	N/A
MW371	Upgradient	Yes	6.32E+02	NO	6.45E+00	N/A
MW374	Upgradient	Yes	6.70E+02	NO	6.51E+00	N/A
MW375	Sidegradient	Yes	3.37E+02	NO	5.82E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Copper UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.056	**S=** 0.072	**CV(1)=** 1.275	**K factor**=** 2.523	**TL(1)=** 2.37E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.395	**S=** 0.915	**CV(2)=** -0.270	**K factor**=** 2.523	**TL(2)=** -1.09E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.50E-02	-3.69E+00
7/15/2002	5.00E-02	-3.00E+00
10/8/2002	2.00E-02	-3.91E+00
1/8/2003	2.00E-02	-3.91E+00
4/3/2003	2.00E-02	-3.91E+00
7/9/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.00E-01	-1.61E+00
1/7/2003	2.00E-01	-1.61E+00
4/2/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-02	-3.91E+00
10/7/2003	2.00E-02	-3.91E+00
1/6/2004	2.00E-02	-3.91E+00
4/7/2004	2.00E-02	-3.91E+00
7/14/2004	2.00E-02	-3.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	1.04E-03	N/A	-6.87E+00	NO
MW365	Downgradient	Yes	2.12E-03	N/A	-6.16E+00	NO
MW371	Upgradient	Yes	8.22E-04	N/A	-7.10E+00	NO
MW374	Upgradient	Yes	5.28E-04	N/A	-7.55E+00	NO
MW375	Sidegradient	Yes	7.02E-04	N/A	-7.26E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Dissolved Oxygen UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.138	**S=** 0.621	**CV(1)=** 0.546	**K factor**=** 2.523	**TL(1)=** 2.70E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.013	**S=** 0.577	**CV(2)=** -43.069	**K factor**=** 2.523	**TL(2)=** 1.44E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.26E+00	8.15E-01
4/22/2002	1.15E+00	1.40E-01
7/15/2002	9.40E-01	-6.19E-02
10/8/2002	7.40E-01	-3.01E-01
1/8/2003	2.62E+00	9.63E-01
4/3/2003	1.50E+00	4.05E-01
7/9/2003	1.66E+00	5.07E-01
10/6/2003	1.28E+00	2.47E-01

Well Number: MW374

Date Collected	Result	LN(Result)
3/18/2002	6.00E-01	-5.11E-01
10/8/2002	6.70E-01	-4.00E-01
1/7/2003	2.30E-01	-1.47E+00
4/2/2003	6.50E-01	-4.31E-01
7/9/2003	9.20E-01	-8.34E-02
10/7/2003	9.90E-01	-1.01E-02
1/6/2004	1.11E+00	1.04E-01
4/7/2004	8.80E-01	-1.28E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	4.90E+00	YES	1.59E+00	N/A
MW365	Downgradient	Yes	8.12E+00	YES	2.09E+00	N/A
MW371	Upgradient	Yes	5.17E+00	YES	1.64E+00	N/A
MW374	Upgradient	Yes	2.67E+00	NO	9.82E-01	N/A
MW375	Sidegradient	Yes	1.42E+00	NO	3.51E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW362
MW365
MW371

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Dissolved Solids UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=**	590.000	**S=**	248.068	**CV(1)=**	0.420	**K factor**=**	2.523	**TL(1)=**	1.22E+03	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=**	6.308	**S=**	0.383	**CV(2)=**	0.061	**K factor**=**	2.523	**TL(2)=**	7.27E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW371	
Date Collected	Result	LN(Result)
3/18/2002	2.74E+02	5.61E+00
4/22/2002	4.09E+02	6.01E+00
7/15/2002	4.18E+02	6.04E+00
10/8/2002	4.24E+02	6.05E+00
1/8/2003	4.31E+02	6.07E+00
4/3/2003	4.44E+02	6.10E+00
7/9/2003	4.45E+02	6.10E+00
10/6/2003	4.38E+02	6.08E+00

Well Number:	MW374	
Date Collected	Result	LN(Result)
10/8/2002	1.14E+03	7.04E+00
1/7/2003	1.10E+03	7.00E+00
4/2/2003	8.63E+02	6.76E+00
7/9/2003	6.82E+02	6.53E+00
10/7/2003	5.89E+02	6.38E+00
1/6/2004	6.03E+02	6.40E+00
4/7/2004	6.01E+02	6.40E+00
7/14/2004	5.82E+02	6.37E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	3.72E+02	NO	5.92E+00	N/A
MW365	Downgradient	Yes	2.57E+02	NO	5.55E+00	N/A
MW371	Upgradient	Yes	3.56E+02	NO	5.87E+00	N/A
MW374	Upgradient	Yes	3.72E+02	NO	5.92E+00	N/A
MW375	Sidegradient	Yes	2.59E+02	NO	5.56E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Iron UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.612	**S=** 6.487	**CV(1)=** 0.981	**K factor**=** 2.523	**TL(1)=** 2.30E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.363	**S=** 1.147	**CV(2)=** 0.841	**K factor**=** 2.523	**TL(2)=** 4.26E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.31E+00	2.70E-01
4/22/2002	9.13E-01	-9.10E-02
7/15/2002	8.81E-01	-1.27E-01
10/8/2002	3.86E+00	1.35E+00
1/8/2003	1.88E+00	6.31E-01
4/3/2003	3.18E+00	1.16E+00
7/9/2003	4.84E-01	-7.26E-01
10/6/2003	2.72E+00	1.00E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.30E+01	3.14E+00
1/7/2003	1.39E+01	2.63E+00
4/2/2003	1.40E+01	2.64E+00
7/9/2003	1.42E+01	2.65E+00
10/7/2003	7.92E+00	2.07E+00
1/6/2004	7.86E+00	2.06E+00
4/7/2004	4.82E+00	1.57E+00
7/14/2004	4.87E+00	1.58E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	4.98E-02	NO	-3.00E+00	N/A
MW365	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW371	Upgradient	Yes	5.71E-02	NO	-2.86E+00	N/A
MW374	Upgradient	Yes	9.91E-02	NO	-2.31E+00	N/A
MW375	Sidegradient	No	1.00E-01	N/A	-2.30E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Magnesium UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 11.347	**S=** 3.019	**CV(1)=** 0.266	**K factor**=** 2.523	**TL(1)=** 1.90E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.401	**S=** 0.237	**CV(2)=** 0.099	**K factor**=** 2.523	**TL(2)=** 3.00E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	7.10E+00	1.96E+00
4/22/2002	9.77E+00	2.28E+00
7/15/2002	1.04E+01	2.34E+00
10/8/2002	1.02E+01	2.32E+00
1/8/2003	1.07E+01	2.37E+00
4/3/2003	1.19E+01	2.48E+00
7/9/2003	1.08E+01	2.38E+00
10/6/2003	1.09E+01	2.39E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.00E+01	3.00E+00
1/7/2003	1.61E+01	2.78E+00
4/2/2003	1.31E+01	2.57E+00
7/9/2003	1.03E+01	2.33E+00
10/7/2003	1.11E+01	2.41E+00
1/6/2004	1.10E+01	2.40E+00
4/7/2004	9.69E+00	2.27E+00
7/14/2004	8.49E+00	2.14E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	8.02E+00	NO	2.08E+00	N/A
MW365	Downgradient	Yes	8.92E+00	NO	2.19E+00	N/A
MW371	Upgradient	Yes	1.64E+01	NO	2.80E+00	N/A
MW374	Upgradient	Yes	6.39E+00	NO	1.85E+00	N/A
MW375	Sidegradient	Yes	5.24E+00	NO	1.66E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Manganese UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.248	**S=** 0.222	**CV(1)=** 0.894	**K factor**=** 2.523	**TL(1)=** 8.09E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.873	**S=** 1.068	**CV(2)=** -0.570	**K factor**=** 2.523	**TL(2)=** 8.21E-01	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	6.30E-02	-2.76E+00
4/22/2002	6.70E-02	-2.70E+00
7/15/2002	7.40E-02	-2.60E+00
10/8/2002	5.21E-02	-2.95E+00
1/8/2003	3.85E-02	-3.26E+00
4/3/2003	5.51E-02	-2.90E+00
7/9/2003	5.46E-02	-2.91E+00
10/6/2003	5.43E-02	-2.91E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	5.96E-01	-5.18E-01
1/7/2003	5.65E-01	-5.71E-01
4/2/2003	6.75E-01	-3.93E-01
7/9/2003	3.97E-01	-9.24E-01
10/7/2003	3.12E-01	-1.16E+00
1/6/2004	2.99E-01	-1.21E+00
4/7/2004	3.29E-01	-1.11E+00
7/14/2004	3.42E-01	-1.07E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW365	Downgradient	Yes	6.63E-03	NO	-5.02E+00	N/A
MW371	Upgradient	Yes	4.21E-03	NO	-5.47E+00	N/A
MW374	Upgradient	Yes	2.24E-02	NO	-3.80E+00	N/A
MW375	Sidegradient	Yes	2.31E-03	NO	-6.07E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Molybdenum UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.006	**S=** 0.010	**CV(1)=** 1.650	**K factor**=** 2.523	**TL(1)=** 2.99E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -6.108	**S=** 1.239	**CV(2)=** -0.203	**K factor**=** 2.523	**TL(2)=** -2.98E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.50E-02	-3.69E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	1.00E-03	-6.91E+00
1/8/2003	1.21E-03	-6.72E+00
4/3/2003	1.00E-03	-6.91E+00
7/9/2003	1.11E-03	-6.80E+00
10/6/2003	1.00E-03	-6.91E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.22E-03	-6.11E+00
1/7/2003	2.01E-03	-6.21E+00
4/2/2003	1.59E-03	-6.44E+00
7/9/2003	2.42E-03	-6.02E+00
10/7/2003	1.00E-03	-6.91E+00
1/6/2004	1.00E-03	-6.91E+00
4/7/2004	1.00E-03	-6.91E+00
7/14/2004	1.00E-03	-6.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	8.24E-04	N/A	-7.10E+00	NO
MW365	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW371	Upgradient	Yes	4.78E-04	N/A	-7.65E+00	NO
MW374	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW375	Sidegradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Nickel UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.023	**S=** 0.022	**CV(1)=** 0.980	**K factor**=** 2.523	**TL(1)=** 7.82E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.349	**S=** 1.109	**CV(2)=** -0.255	**K factor**=** 2.523	**TL(2)=** -1.55E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	5.00E-02	-3.00E+00
4/22/2002	5.00E-02	-3.00E+00
7/15/2002	5.00E-02	-3.00E+00
10/8/2002	1.24E-02	-4.39E+00
1/8/2003	5.00E-03	-5.30E+00
4/3/2003	5.00E-03	-5.30E+00
7/9/2003	5.00E-03	-5.30E+00
10/6/2003	5.00E-03	-5.30E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	5.00E-02	-3.00E+00
1/7/2003	5.00E-02	-3.00E+00
4/2/2003	5.00E-02	-3.00E+00
7/9/2003	7.94E-03	-4.84E+00
10/7/2003	5.00E-03	-5.30E+00
1/6/2004	5.00E-03	-5.30E+00
4/7/2004	5.00E-03	-5.30E+00
7/14/2004	5.00E-03	-5.30E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	6.13E-04	NO	-7.40E+00	N/A
MW365	Downgradient	Yes	5.13E-03	NO	-5.27E+00	N/A
MW371	Upgradient	Yes	1.33E-03	NO	-6.62E+00	N/A
MW374	Upgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW375	Sidegradient	Yes	9.70E-04	NO	-6.94E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Oxidation-Reduction Potential UNITS: mV UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 22.281	**S=** 78.889	**CV(1)=** 3.541	**K factor**=** 2.523	**TL(1)=** 2.21E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.642	**S=** 1.729	**CV(2)=** 0.475	**K factor**=** 2.523	**TL(2)=** 5.11E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	7.50E+01	4.32E+00
4/22/2002	1.65E+02	5.11E+00
7/15/2002	6.50E+01	4.17E+00
4/3/2003	-1.90E+01	#Func!
7/9/2003	1.14E+02	4.74E+00
10/6/2003	-2.20E+01	#Func!
1/7/2004	2.05E+01	3.02E+00
4/6/2004	1.13E+02	4.73E+00

Well Number: MW374

Date Collected	Result	LN(Result)
3/18/2002	1.35E+02	4.91E+00
4/2/2003	-5.60E+01	#Func!
7/9/2003	-6.80E+01	#Func!
10/7/2003	-5.00E+01	#Func!
1/6/2004	-8.50E+01	#Func!
4/7/2004	6.00E+00	1.79E+00
7/14/2004	-3.80E+01	#Func!
10/7/2004	1.00E+00	0.00E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	5.24E+02	N/A	6.26E+00	YES
MW365	Downgradient	Yes	4.76E+02	N/A	6.17E+00	YES
MW371	Upgradient	Yes	4.28E+02	N/A	6.06E+00	YES
MW374	Upgradient	Yes	3.87E+02	N/A	5.96E+00	YES
MW375	Sidegradient	Yes	4.80E+02	N/A	6.17E+00	YES

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW362
MW365
MW371
MW374
MW375

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

pH **UNITS: Std Unit** **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.619	**S=** 0.295	**CV(1)=**0.045	**K factor**=** 2.904	**TL(1)=** 7.48E+00	**LL(1)=**5.76E+00
Statistics-Transformed Background Data	**X=** 1.889	**S=** 0.046	**CV(2)=**0.024	**K factor**=** 2.904	**TL(2)=** 2.02E+00	**LL(2)=**1.75E+00

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW371	
Date Collected	Result	LN(Result)
3/18/2002	6.30E+00	1.84E+00
4/22/2002	6.50E+00	1.87E+00
7/15/2002	6.50E+00	1.87E+00
10/8/2002	6.60E+00	1.89E+00
1/8/2003	6.60E+00	1.89E+00
4/3/2003	6.90E+00	1.93E+00
7/9/2003	6.70E+00	1.90E+00
10/6/2003	7.00E+00	1.95E+00

Well Number:	MW374	
Date Collected	Result	LN(Result)
3/18/2002	5.75E+00	1.75E+00
10/8/2002	6.60E+00	1.89E+00
1/7/2003	6.82E+00	1.92E+00
4/2/2003	6.86E+00	1.93E+00
7/9/2003	6.70E+00	1.90E+00
10/7/2003	6.60E+00	1.89E+00
1/6/2004	6.90E+00	1.93E+00
4/7/2004	6.58E+00	1.88E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)? Result <LL(1)?	LN(Result)	LN(Result) >TL(2)? LN(Result) <LL(2)?
MW362	Downgradient	Yes	7.01E+00	NO	1.95E+00	N/A
MW365	Downgradient	Yes	6.40E+00	NO	1.86E+00	N/A
MW371	Upgradient	Yes	6.56E+00	NO	1.88E+00	N/A
MW374	Upgradient	Yes	6.72E+00	NO	1.91E+00	N/A
MW375	Sidegradient	Yes	6.30E+00	NO	1.84E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Potassium UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.262	**S=** 0.907	**CV(1)=** 0.718	**K factor**=** 2.523	**TL(1)=** 3.55E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.023	**S=** 0.752	**CV(2)=** -32.218	**K factor**=** 2.523	**TL(2)=** 1.87E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number:	MW371	
Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/22/2002	2.00E+00	6.93E-01
7/15/2002	2.00E+00	6.93E-01
10/8/2002	4.08E-01	-8.96E-01
1/8/2003	3.84E-01	-9.57E-01
4/3/2003	3.68E-01	-1.00E+00
7/9/2003	5.87E-01	-5.33E-01
10/6/2003	3.82E-01	-9.62E-01

Well Number:	MW374	
Date Collected	Result	LN(Result)
10/8/2002	3.04E+00	1.11E+00
1/7/2003	2.83E+00	1.04E+00
4/2/2003	2.00E+00	6.93E-01
7/9/2003	1.09E+00	8.62E-02
10/7/2003	8.02E-01	-2.21E-01
1/6/2004	8.97E-01	-1.09E-01
4/7/2004	6.89E-01	-3.73E-01
7/14/2004	7.16E-01	-3.34E-01

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	3.11E-01	NO	-1.17E+00	N/A
MW365	Downgradient	Yes	2.64E-01	NO	-1.33E+00	N/A
MW371	Upgradient	Yes	3.13E-01	NO	-1.16E+00	N/A
MW374	Upgradient	Yes	3.01E-01	NO	-1.20E+00	N/A
MW375	Sidegradient	Yes	2.64E-01	NO	-1.33E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Sodium UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 183.063	**S=** 73.222	**CV(1)=** 0.400	**K factor**=** 2.523	**TL(1)=** 3.68E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.146	**S=** 0.356	**CV(2)=** 0.069	**K factor**=** 2.523	**TL(2)=** 6.04E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.29E+02	4.86E+00
4/22/2002	1.31E+02	4.88E+00
7/15/2002	1.27E+02	4.84E+00
10/8/2002	1.23E+02	4.81E+00
1/8/2003	1.28E+02	4.85E+00
4/3/2003	1.44E+02	4.97E+00
7/9/2003	1.26E+02	4.84E+00
10/6/2003	1.20E+02	4.79E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	3.36E+02	5.82E+00
1/7/2003	3.29E+02	5.80E+00
4/2/2003	2.87E+02	5.66E+00
7/9/2003	1.81E+02	5.20E+00
10/7/2003	1.82E+02	5.20E+00
1/6/2004	2.06E+02	5.33E+00
4/7/2004	1.82E+02	5.20E+00
7/14/2004	1.98E+02	5.29E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	1.24E+02	NO	4.82E+00	N/A
MW365	Downgradient	Yes	5.46E+01	NO	4.00E+00	N/A
MW371	Upgradient	Yes	7.88E+01	NO	4.37E+00	N/A
MW374	Upgradient	Yes	1.26E+02	NO	4.84E+00	N/A
MW375	Sidegradient	Yes	5.50E+01	NO	4.01E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Sulfate UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.469	**S=** 3.153	**CV(1)=** 0.487	**K factor**=** 2.523	**TL(1)=** 1.44E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.794	**S=** 0.357	**CV(2)=** 0.199	**K factor**=** 2.523	**TL(2)=** 2.69E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.63E+01	2.79E+00
4/22/2002	8.60E+00	2.15E+00
7/15/2002	6.70E+00	1.90E+00
10/8/2002	5.00E+00	1.61E+00
1/8/2003	5.00E+00	1.61E+00
4/3/2003	5.00E+00	1.61E+00
7/9/2003	5.00E+00	1.61E+00
10/6/2003	5.00E+00	1.61E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	5.00E+00	1.61E+00
1/7/2003	5.00E+00	1.61E+00
4/2/2003	5.00E+00	1.61E+00
7/9/2003	5.60E+00	1.72E+00
10/7/2003	5.00E+00	1.61E+00
1/6/2004	5.00E+00	1.61E+00
4/7/2004	1.13E+01	2.42E+00
7/14/2004	5.00E+00	1.61E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	3.13E+01	YES	3.44E+00	N/A
MW365	Downgradient	Yes	5.04E+01	YES	3.92E+00	N/A
MW371	Upgradient	Yes	1.44E+01	NO	2.67E+00	N/A
MW374	Upgradient	Yes	2.18E+01	YES	3.08E+00	N/A
MW375	Sidegradient	Yes	2.16E+01	YES	3.07E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW362
MW365
MW374
MW375

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Total Organic Carbon (TOC) UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 17.631	**S=** 24.314	**CV(1)=** 1.379	**K factor**=** 2.523	**TL(1)=** 7.90E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.318	**S=** 0.979	**CV(2)=** 0.422	**K factor**=** 2.523	**TL(2)=** 4.79E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.11E+01	2.41E+00
4/22/2002	7.00E+00	1.95E+00
7/15/2002	4.10E+00	1.41E+00
10/8/2002	6.00E+00	1.79E+00
1/8/2003	5.30E+00	1.67E+00
4/3/2003	5.30E+00	1.67E+00
7/9/2003	2.90E+00	1.06E+00
10/6/2003	3.20E+00	1.16E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	9.00E+01	4.50E+00
1/7/2003	6.40E+01	4.16E+00
4/2/2003	2.50E+01	3.22E+00
7/9/2003	1.60E+01	2.77E+00
10/7/2003	1.30E+01	2.56E+00
1/6/2004	1.00E+01	2.30E+00
4/7/2004	7.20E+00	1.97E+00
7/14/2004	1.20E+01	2.48E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	1.97E+00	N/A	6.78E-01	NO
MW365	Downgradient	Yes	1.61E+00	N/A	4.76E-01	NO
MW371	Upgradient	Yes	1.80E+00	N/A	5.88E-01	NO
MW374	Upgradient	Yes	2.17E+00	N/A	7.75E-01	NO
MW375	Sidegradient	Yes	8.08E-01	N/A	-2.13E-01	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Total Organic Halides (TOX) UNITS: ug/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=**	214.094	**S=**	231.089	**CV(1)=**	1.079	**K factor**=**	2.523	**TL(1)=**	7.97E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=**	4.867	**S=**	1.065	**CV(2)=**	0.219	**K factor**=**	2.523	**TL(2)=**	7.55E+00	**LL(2)=** N/A

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	5.00E+01	3.91E+00
4/22/2002	1.05E+02	4.65E+00
7/15/2002	7.00E+01	4.25E+00
10/8/2002	5.20E+01	3.95E+00
1/8/2003	2.02E+01	3.01E+00
4/3/2003	1.04E+02	4.64E+00
7/9/2003	3.42E+01	3.53E+00
10/6/2003	4.61E+01	3.83E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	9.03E+02	6.81E+00
1/7/2003	5.39E+02	6.29E+00
4/2/2003	2.95E+02	5.69E+00
7/9/2003	2.72E+02	5.61E+00
10/7/2003	1.97E+02	5.28E+00
1/6/2004	3.30E+02	5.80E+00
4/7/2004	1.83E+02	5.21E+00
7/14/2004	2.25E+02	5.42E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	1.55E+01	N/A	2.74E+00	NO
MW365	Downgradient	Yes	2.31E+01	N/A	3.14E+00	NO
MW371	Upgradient	Yes	1.60E+01	N/A	2.77E+00	NO
MW374	Upgradient	Yes	1.45E+01	N/A	2.67E+00	NO
MW375	Sidegradient	Yes	7.52E+00	N/A	2.02E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Vanadium UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.055	**S=** 0.072	**CV(1)=** 1.319	**K factor**=** 2.523	**TL(1)=** 2.37E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.438	**S=** 0.912	**CV(2)=** -0.265	**K factor**=** 2.523	**TL(2)=** -1.14E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.50E-02	-3.69E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	2.00E-02	-3.91E+00
1/8/2003	2.00E-02	-3.91E+00
4/3/2003	2.00E-02	-3.91E+00
7/9/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.00E-01	-1.61E+00
1/7/2003	2.00E-01	-1.61E+00
4/2/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-02	-3.91E+00
10/7/2003	2.00E-02	-3.91E+00
1/6/2004	2.00E-02	-3.91E+00
4/7/2004	2.00E-02	-3.91E+00
7/14/2004	2.00E-02	-3.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW365	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW371	Upgradient	Yes	5.70E-03	N/A	-5.17E+00	NO
MW374	Upgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW375	Sidegradient	No	2.00E-02	N/A	-3.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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Zinc UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.060	**S=** 0.083	**CV(1)=** 1.380	**K factor**=** 2.523	**TL(1)=** 2.70E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.259	**S=** 0.840	**CV(2)=** -0.258	**K factor**=** 2.523	**TL(2)=** -1.14E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
3/18/2002	1.00E-01	-2.30E+00
4/22/2002	1.00E-01	-2.30E+00
7/15/2002	1.00E-01	-2.30E+00
10/8/2002	2.50E-02	-3.69E+00
1/8/2003	3.50E-02	-3.35E+00
4/3/2003	3.50E-02	-3.35E+00
7/9/2003	3.76E-02	-3.28E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.50E-02	-3.69E+00
1/7/2003	3.50E-01	-1.05E+00
4/2/2003	3.50E-02	-3.35E+00
7/9/2003	2.00E-02	-3.91E+00
10/7/2003	2.00E-02	-3.91E+00
1/6/2004	2.00E-02	-3.91E+00
4/7/2004	2.00E-02	-3.91E+00
7/14/2004	2.00E-02	-3.91E+00

Dry/Partially Dry Wells

Well No.	Gradient
MW359	Downgradient
MW368	Downgradient
MW376	Sidegradient
MW377	Sidegradient

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	4.29E-03	N/A	-5.45E+00	NO
MW365	Downgradient	Yes	3.42E-03	N/A	-5.68E+00	NO
MW371	Upgradient	Yes	3.30E-03	N/A	-5.71E+00	NO
MW374	Upgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW375	Sidegradient	No	2.00E-02	N/A	-3.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Aluminum UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.625	**S=** 0.774	**CV(1)=** 1.239	**K factor**=** 2.523	**TL(1)=** 2.58E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.973	**S=** 0.935	**CV(2)=** -0.961	**K factor**=** 2.523	**TL(2)=** 1.39E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.55E-01	-1.37E+00
4/22/2002	2.00E-01	-1.61E+00
7/15/2002	3.22E-01	-1.13E+00
10/8/2002	2.00E-01	-1.61E+00
1/8/2003	2.00E-01	-1.61E+00
4/3/2003	2.00E-01	-1.61E+00
7/8/2003	2.00E-01	-1.61E+00
10/6/2003	6.89E-01	-3.73E-01

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.61E+00	9.59E-01
4/23/2002	2.00E-01	-1.61E+00
7/16/2002	1.14E+00	1.31E-01
10/8/2002	8.62E-01	-1.49E-01
1/7/2003	2.32E+00	8.42E-01
4/2/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-01	-1.61E+00
10/7/2003	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW360	Downgradient	Yes	6.82E-02	N/A	-2.69E+00	NO
MW363	Downgradient	Yes	9.85E-02	N/A	-2.32E+00	NO
MW366	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW369	Upgradient	Yes	6.97E-02	N/A	-2.66E+00	NO
MW372	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Boron UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.985	**S=** 0.825	**CV(1)=** 0.838	**K factor**=** 2.523	**TL(1)=** 3.07E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.430	**S=** 0.990	**CV(2)=** -2.302	**K factor**=** 2.523	**TL(2)=** 2.07E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/22/2002	2.00E+00	6.93E-01
7/15/2002	2.00E+00	6.93E-01
10/8/2002	2.00E-01	-1.61E+00
1/8/2003	2.00E-01	-1.61E+00
4/3/2003	2.00E-01	-1.61E+00
7/8/2003	2.00E-01	-1.61E+00
10/6/2003	2.00E-01	-1.61E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.00E+00	6.93E-01
4/23/2002	2.00E+00	6.93E-01
7/16/2002	2.00E+00	6.93E-01
10/8/2002	4.92E-01	-7.09E-01
1/7/2003	4.92E-01	-7.09E-01
4/2/2003	6.00E-01	-5.11E-01
7/9/2003	5.70E-01	-5.62E-01
10/7/2003	6.04E-01	-5.04E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	3.17E-01	NO	-1.15E+00	N/A
MW360	Downgradient	Yes	1.97E-02	NO	-3.93E+00	N/A
MW363	Downgradient	Yes	2.38E-02	NO	-3.74E+00	N/A
MW366	Downgradient	Yes	1.01E-01	NO	-2.29E+00	N/A
MW369	Upgradient	Yes	1.63E-02	NO	-4.12E+00	N/A
MW372	Upgradient	Yes	1.32E+00	NO	2.78E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Bromide UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.000	**S=** 0.000	**CV(1)=** 0.000	**K factor**=** 2.523	**TL(1)=** 1.00E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.000	**S=** 0.000	**CV(2)=** #Num!	**K factor**=** 2.523	**TL(2)=** 0.00E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	1.00E+00	0.00E+00
4/22/2002	1.00E+00	0.00E+00
7/15/2002	1.00E+00	0.00E+00
10/8/2002	1.00E+00	0.00E+00
1/8/2003	1.00E+00	0.00E+00
4/3/2003	1.00E+00	0.00E+00
7/8/2003	1.00E+00	0.00E+00
10/6/2003	1.00E+00	0.00E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	1.00E+00	0.00E+00
4/23/2002	1.00E+00	0.00E+00
7/16/2002	1.00E+00	0.00E+00
10/8/2002	1.00E+00	0.00E+00
1/7/2003	1.00E+00	0.00E+00
4/2/2003	1.00E+00	0.00E+00
7/9/2003	1.00E+00	0.00E+00
10/7/2003	1.00E+00	0.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	3.70E-01	NO	-9.94E-01	N/A
MW360	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW363	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW366	Downgradient	Yes	4.75E-01	NO	-7.44E-01	N/A
MW369	Upgradient	Yes	3.23E-01	NO	-1.13E+00	N/A
MW372	Upgradient	Yes	3.00E-01	NO	-1.20E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Calcium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 32.763	**S=** 9.391	**CV(1)=** 0.287	**K factor**=** 2.523	**TL(1)=** 5.65E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.449	**S=** 0.299	**CV(2)=** 0.087	**K factor**=** 2.523	**TL(2)=** 4.20E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.95E+01	3.38E+00
4/22/2002	2.98E+01	3.39E+00
7/15/2002	2.53E+01	3.23E+00
10/8/2002	2.19E+01	3.09E+00
1/8/2003	2.09E+01	3.04E+00
4/3/2003	2.22E+01	3.10E+00
7/8/2003	2.29E+01	3.13E+00
10/6/2003	2.17E+01	3.08E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	4.15E+01	3.73E+00
4/23/2002	4.36E+01	3.78E+00
7/16/2002	4.04E+01	3.70E+00
10/8/2002	3.88E+01	3.66E+00
1/7/2003	4.11E+01	3.72E+00
4/2/2003	4.29E+01	3.76E+00
7/9/2003	3.51E+01	3.56E+00
10/7/2003	4.66E+01	3.84E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	2.52E+01	NO	3.23E+00	N/A
MW360	Downgradient	Yes	1.87E+01	NO	2.93E+00	N/A
MW363	Downgradient	Yes	2.08E+01	NO	3.03E+00	N/A
MW366	Downgradient	Yes	3.37E+01	NO	3.52E+00	N/A
MW369	Upgradient	Yes	1.64E+01	NO	2.80E+00	N/A
MW372	Upgradient	Yes	6.77E+01	YES	4.22E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison
Chemical Oxygen Demand (COD) UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 35.938	**S=** 3.750	**CV(1)=** 0.104	**K factor**=** 2.523	**TL(1)=** 4.54E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.578	**S=** 0.089	**CV(2)=** 0.025	**K factor**=** 2.523	**TL(2)=** 3.80E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	3.50E+01	3.56E+00
4/22/2002	3.50E+01	3.56E+00
7/15/2002	3.50E+01	3.56E+00
10/8/2002	5.00E+01	3.91E+00
1/8/2003	3.50E+01	3.56E+00
4/3/2003	3.50E+01	3.56E+00
7/8/2003	3.50E+01	3.56E+00
10/6/2003	3.50E+01	3.56E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	3.50E+01	3.56E+00
4/23/2002	3.50E+01	3.56E+00
7/16/2002	3.50E+01	3.56E+00
10/8/2002	3.50E+01	3.56E+00
1/7/2003	3.50E+01	3.56E+00
4/2/2003	3.50E+01	3.56E+00
7/9/2003	3.50E+01	3.56E+00
10/7/2003	3.50E+01	3.56E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW360	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW363	Downgradient	Yes	1.43E+01	NO	2.66E+00	N/A
MW366	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW369	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW372	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Chloride UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 44.119	**S=** 4.554	**CV(1)=** 0.103	**K factor**=** 2.523	**TL(1)=** 5.56E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.782	**S=** 0.099	**CV(2)=** 0.026	**K factor**=** 2.523	**TL(2)=** 4.03E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
7/15/2002	4.83E+01	3.88E+00
10/8/2002	4.77E+01	3.86E+00
1/8/2003	4.57E+01	3.82E+00
4/3/2003	4.74E+01	3.86E+00
7/8/2003	5.59E+01	4.02E+00
10/6/2003	4.74E+01	3.86E+00
1/7/2004	4.55E+01	3.82E+00
4/7/2004	4.34E+01	3.77E+00

Well Number: MW372

Date Collected	Result	LN(Result)
7/16/2002	3.98E+01	3.68E+00
10/8/2002	4.10E+01	3.71E+00
1/7/2003	3.94E+01	3.67E+00
4/2/2003	3.92E+01	3.67E+00
7/9/2003	3.98E+01	3.68E+00
10/7/2003	4.00E+01	3.69E+00
1/5/2004	4.34E+01	3.77E+00
4/5/2004	4.20E+01	3.74E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	3.24E+01	NO	3.48E+00	N/A
MW360	Downgradient	Yes	6.18E+00	NO	1.82E+00	N/A
MW363	Downgradient	Yes	1.82E+01	NO	2.90E+00	N/A
MW366	Downgradient	Yes	4.24E+01	NO	3.75E+00	N/A
MW369	Upgradient	Yes	2.78E+01	NO	3.33E+00	N/A
MW372	Upgradient	Yes	3.61E+01	NO	3.59E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Cobalt UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.025	**S=** 0.021	**CV(1)=** 0.845	**K factor**=** 2.523	**TL(1)=** 7.73E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.090	**S=** 1.006	**CV(2)=** -0.246	**K factor**=** 2.523	**TL(2)=** -1.55E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.50E-02	-3.69E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	9.38E-03	-4.67E+00
1/8/2003	5.48E-03	-5.21E+00
4/3/2003	5.87E-03	-5.14E+00
7/8/2003	5.41E-02	-2.92E+00
10/6/2003	6.89E-02	-2.68E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.50E-02	-3.69E+00
4/23/2002	2.50E-02	-3.69E+00
7/16/2002	2.50E-02	-3.69E+00
10/8/2002	1.58E-03	-6.45E+00
1/7/2003	1.47E-02	-4.22E+00
4/2/2003	1.16E-02	-4.46E+00
7/9/2003	6.53E-02	-2.73E+00
10/7/2003	7.88E-03	-4.84E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW360	Downgradient	Yes	5.46E-04	NO	-7.51E+00	N/A
MW363	Downgradient	Yes	7.31E-04	NO	-7.22E+00	N/A
MW366	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW369	Upgradient	Yes	4.32E-03	NO	-5.44E+00	N/A
MW372	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Conductivity UNITS: umho/cm URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 482.856	**S=** 57.603	**CV(1)=** 0.119	**K factor**=** 2.523	**TL(1)=** 6.28E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.173	**S=** 0.123	**CV(2)=** 0.020	**K factor**=** 2.523	**TL(2)=** 6.48E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	3.88E+02	5.96E+00
4/22/2002	4.04E+02	6.00E+00
7/15/2002	3.94E+02	5.98E+00
10/8/2002	4.03E+02	6.00E+00
1/8/2003	5.20E+02	6.25E+00
4/3/2003	4.87E+02	6.19E+00
7/8/2003	4.78E+02	6.17E+00
10/6/2003	4.76E+02	6.17E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	5.08E+02	6.23E+00
4/23/2002	5.01E+02	6.22E+00
7/16/2002	5.07E+02	6.23E+00
10/8/2002	4.95E+02	6.20E+00
1/7/2003	5.09E+02	6.23E+00
4/2/2003	5.15E+02	6.24E+00
7/9/2003	5.76E+02	6.36E+00
10/7/2003	5.65E+02	6.34E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	4.24E+02	NO	6.05E+00	N/A
MW360	Downgradient	Yes	4.06E+02	NO	6.01E+00	N/A
MW363	Downgradient	Yes	3.48E+02	NO	5.85E+00	N/A
MW366	Downgradient	Yes	4.92E+02	NO	6.20E+00	N/A
MW369	Upgradient	Yes	3.58E+02	NO	5.88E+00	N/A
MW372	Upgradient	Yes	7.85E+02	YES	6.67E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Copper UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.025	**S=** 0.010	**CV(1)=** 0.400	**K factor**=** 2.523	**TL(1)=** 5.02E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.742	**S=** 0.307	**CV(2)=** -0.082	**K factor**=** 2.523	**TL(2)=** -2.97E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.50E-02	-3.69E+00
7/15/2002	5.00E-02	-3.00E+00
10/8/2002	2.00E-02	-3.91E+00
1/8/2003	2.00E-02	-3.91E+00
4/3/2003	2.00E-02	-3.91E+00
7/8/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.50E-02	-3.69E+00
4/23/2002	2.50E-02	-3.69E+00
7/16/2002	5.00E-02	-3.00E+00
10/8/2002	2.00E-02	-3.91E+00
1/7/2003	2.00E-02	-3.91E+00
4/2/2003	2.00E-02	-3.91E+00
7/9/2003	2.00E-02	-3.91E+00
10/7/2003	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	8.14E-04	NO	-7.11E+00	N/A
MW360	Downgradient	Yes	2.18E-03	NO	-6.13E+00	N/A
MW363	Downgradient	Yes	7.24E-04	NO	-7.23E+00	N/A
MW366	Downgradient	Yes	6.89E-04	NO	-7.28E+00	N/A
MW369	Upgradient	Yes	1.61E-03	NO	-6.43E+00	N/A
MW372	Upgradient	Yes	8.81E-04	NO	-7.03E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Dissolved Oxygen UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.781	**S=** 1.351	**CV(1)=**0.759	**K factor**=** 2.523	**TL(1)=** 5.19E+00	**LL(1)=**N/A
Statistics-Transformed Background Data	**X=** 0.228	**S=** 1.065	**CV(2)=**4.665	**K factor**=** 2.523	**TL(2)=** 2.92E+00	**LL(2)=**N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	5.41E+00	1.69E+00
4/22/2002	1.57E+00	4.51E-01
7/15/2002	8.00E-01	-2.23E-01
10/8/2002	1.09E+00	8.62E-02
1/8/2003	2.69E+00	9.90E-01
4/3/2003	2.04E+00	7.13E-01
7/8/2003	1.19E+00	1.74E-01
10/6/2003	1.78E+00	5.77E-01

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	3.89E+00	1.36E+00
4/23/2002	5.00E-02	-3.00E+00
7/16/2002	1.33E+00	2.85E-01
10/8/2002	2.66E+00	9.78E-01
1/7/2003	4.00E-01	-9.16E-01
4/2/2003	9.10E-01	-9.43E-02
7/9/2003	1.42E+00	3.51E-01
10/7/2003	1.26E+00	2.31E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	4.23E+00	NO	1.44E+00	N/A
MW360	Downgradient	Yes	1.81E+00	NO	5.93E-01	N/A
MW363	Downgradient	Yes	2.55E+00	NO	9.36E-01	N/A
MW366	Downgradient	Yes	3.50E+00	NO	1.25E+00	N/A
MW369	Upgradient	Yes	3.43E+00	NO	1.23E+00	N/A
MW372	Upgradient	Yes	2.51E+00	NO	9.20E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Dissolved Solids UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 285.188	**S=** 44.908	**CV(1)=** 0.157	**K factor**=** 2.523	**TL(1)=** 3.98E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.640	**S=** 0.175	**CV(2)=** 0.031	**K factor**=** 2.523	**TL(2)=** 6.08E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	1.73E+02	5.15E+00
4/22/2002	2.46E+02	5.51E+00
7/15/2002	2.32E+02	5.45E+00
10/8/2002	2.75E+02	5.62E+00
1/8/2003	2.69E+02	5.59E+00
4/3/2003	2.50E+02	5.52E+00
7/8/2003	2.95E+02	5.69E+00
10/6/2003	2.76E+02	5.62E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.95E+02	5.69E+00
4/23/2002	3.22E+02	5.77E+00
7/16/2002	3.29E+02	5.80E+00
10/8/2002	2.90E+02	5.67E+00
1/7/2003	3.16E+02	5.76E+00
4/2/2003	3.11E+02	5.74E+00
7/9/2003	3.47E+02	5.85E+00
10/7/2003	3.37E+02	5.82E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	2.24E+02	NO	5.41E+00	N/A
MW360	Downgradient	Yes	2.26E+02	NO	5.42E+00	N/A
MW363	Downgradient	Yes	1.89E+02	NO	5.24E+00	N/A
MW366	Downgradient	Yes	2.91E+02	NO	5.67E+00	N/A
MW369	Upgradient	Yes	2.85E+02	NO	5.65E+00	N/A
MW372	Upgradient	Yes	4.63E+02	YES	6.14E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Iron UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 7.385	**S=** 6.991	**CV(1)=** 0.947	**K factor**=** 2.523	**TL(1)=** 2.50E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.358	**S=** 1.323	**CV(2)=** 0.974	**K factor**=** 2.523	**TL(2)=** 4.70E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	6.56E-01	-4.22E-01
4/22/2002	6.95E-01	-3.64E-01
7/15/2002	7.10E+00	1.96E+00
10/8/2002	2.15E+01	3.07E+00
1/8/2003	1.85E+01	2.92E+00
4/3/2003	1.49E+01	2.70E+00
7/8/2003	1.13E+01	2.42E+00
10/6/2003	1.49E+01	2.70E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	5.95E+00	1.78E+00
4/23/2002	7.92E-01	-2.33E-01
7/16/2002	1.78E+00	5.77E-01
10/8/2002	7.76E-01	-2.54E-01
1/7/2003	3.55E+00	1.27E+00
4/2/2003	5.02E+00	1.61E+00
7/9/2003	1.00E+01	2.30E+00
10/7/2003	7.33E-01	-3.11E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW360	Downgradient	Yes	9.04E-02	NO	-2.40E+00	N/A
MW363	Downgradient	Yes	1.22E-01	NO	-2.10E+00	N/A
MW366	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW369	Upgradient	Yes	9.78E-02	NO	-2.32E+00	N/A
MW372	Upgradient	Yes	3.31E-02	NO	-3.41E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Magnesium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 12.864	**S=** 3.505	**CV(1)=** 0.272	**K factor**=** 2.523	**TL(1)=** 2.17E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.517	**S=** 0.290	**CV(2)=** 0.115	**K factor**=** 2.523	**TL(2)=** 3.25E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	1.14E+01	2.43E+00
4/22/2002	1.20E+01	2.48E+00
7/15/2002	1.00E+01	2.30E+00
10/8/2002	8.62E+00	2.15E+00
1/8/2003	7.89E+00	2.07E+00
4/3/2003	7.97E+00	2.08E+00
7/8/2003	1.03E+01	2.33E+00
10/6/2003	9.14E+00	2.21E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	1.57E+01	2.75E+00
4/23/2002	1.66E+01	2.81E+00
7/16/2002	1.54E+01	2.73E+00
10/8/2002	1.58E+01	2.76E+00
1/7/2003	1.58E+01	2.76E+00
4/2/2003	1.64E+01	2.80E+00
7/9/2003	1.52E+01	2.72E+00
10/7/2003	1.76E+01	2.87E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	1.05E+01	NO	2.35E+00	N/A
MW360	Downgradient	Yes	7.74E+00	NO	2.05E+00	N/A
MW363	Downgradient	Yes	8.22E+00	NO	2.11E+00	N/A
MW366	Downgradient	Yes	1.44E+01	NO	2.67E+00	N/A
MW369	Upgradient	Yes	7.09E+00	NO	1.96E+00	N/A
MW372	Upgradient	Yes	2.39E+01	YES	3.17E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Manganese UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.413	**S=** 0.274	**CV(1)=** 0.664	**K factor**=** 2.523	**TL(1)=** 1.11E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -1.226	**S=** 1.008	**CV(2)=** -0.822	**K factor**=** 2.523	**TL(2)=** 1.32E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	3.40E-02	-3.38E+00
4/22/2002	6.20E-02	-2.78E+00
7/15/2002	4.36E-01	-8.30E-01
10/8/2002	8.67E-01	-1.43E-01
1/8/2003	8.28E-01	-1.89E-01
4/3/2003	6.72E-01	-3.97E-01
7/8/2003	3.21E-01	-1.14E+00
10/6/2003	7.14E-01	-3.37E-01

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.05E-01	-1.58E+00
4/23/2002	3.45E-01	-1.06E+00
7/16/2002	2.10E-01	-1.56E+00
10/8/2002	5.39E-02	-2.92E+00
1/7/2003	5.37E-01	-6.22E-01
4/2/2003	4.15E-01	-8.79E-01
7/9/2003	6.54E-01	-4.25E-01
10/7/2003	2.54E-01	-1.37E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW360	Downgradient	Yes	5.03E-03	NO	-5.29E+00	N/A
MW363	Downgradient	Yes	1.14E-01	NO	-2.17E+00	N/A
MW366	Downgradient	Yes	1.66E-03	NO	-6.40E+00	N/A
MW369	Upgradient	Yes	4.72E-03	NO	-5.36E+00	N/A
MW372	Upgradient	Yes	1.49E-03	NO	-6.51E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Nickel UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.024	**S=** 0.021	**CV(1)=** 0.910	**K factor**=** 2.523	**TL(1)=** 7.77E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.246	**S=** 1.075	**CV(2)=** -0.253	**K factor**=** 2.523	**TL(2)=** -1.53E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	5.00E-02	-3.00E+00
4/22/2002	5.00E-02	-3.00E+00
7/15/2002	5.00E-02	-3.00E+00
10/8/2002	5.00E-03	-5.30E+00
1/8/2003	5.00E-03	-5.30E+00
4/3/2003	5.00E-03	-5.30E+00
7/8/2003	1.30E-02	-4.34E+00
10/6/2003	1.04E-02	-4.57E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	5.00E-02	-3.00E+00
4/23/2002	5.00E-02	-3.00E+00
7/16/2002	5.00E-02	-3.00E+00
10/8/2002	5.00E-03	-5.30E+00
1/7/2003	5.00E-03	-5.30E+00
4/2/2003	5.00E-03	-5.30E+00
7/9/2003	1.90E-02	-3.96E+00
10/7/2003	5.00E-03	-5.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW360	Downgradient	Yes	1.20E-03	NO	-6.73E+00	N/A
MW363	Downgradient	Yes	1.77E-02	NO	-4.03E+00	N/A
MW366	Downgradient	Yes	6.74E-04	NO	-7.30E+00	N/A
MW369	Upgradient	Yes	2.65E-03	NO	-5.93E+00	N/A
MW372	Upgradient	Yes	1.05E-03	NO	-6.86E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Oxidation-Reduction Potential UNITS: mV URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 74.563	**S=** 94.243	**CV(1)=** 1.264	**K factor**=** 2.523	**TL(1)=** 3.12E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 4.554	**S=** 0.784	**CV(2)=** 0.172	**K factor**=** 2.523	**TL(2)=** 5.37E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.15E+02	5.37E+00
4/22/2002	1.10E+02	4.70E+00
7/15/2002	2.00E+01	3.00E+00
1/8/2003	-5.00E+00	#Func!
4/3/2003	-1.80E+01	#Func!
7/8/2003	-6.70E+01	#Func!
10/6/2003	-1.00E+00	#Func!
1/7/2004	5.50E+01	4.01E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.10E+02	5.35E+00
4/23/2002	6.50E+01	4.17E+00
7/16/2002	2.15E+02	5.37E+00
10/8/2002	1.85E+02	5.22E+00
1/7/2003	4.50E+01	3.81E+00
4/2/2003	6.50E+01	4.17E+00
7/9/2003	-3.90E+01	#Func!
10/7/2003	1.38E+02	4.93E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	5.29E+02	N/A	6.27E+00	YES
MW360	Downgradient	Yes	5.02E+02	N/A	6.22E+00	YES
MW363	Downgradient	Yes	4.56E+02	N/A	6.12E+00	YES
MW366	Downgradient	Yes	4.94E+02	N/A	6.20E+00	YES
MW369	Upgradient	Yes	4.89E+02	N/A	6.19E+00	YES
MW372	Upgradient	Yes	4.91E+02	N/A	6.20E+00	YES

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW357
MW360
MW363
MW366
MW369
MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

pH **UNITS: Std Unit** **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.274	**S=** 0.194	**CV(1)=**0.031	**K factor**=** 2.904	**TL(1)=** 6.84E+00	**LL(1)=**5.71E+00
Statistics-Transformed Background Data	**X=** 1.836	**S=** 0.031	**CV(2)=**0.017	**K factor**=** 2.904	**TL(2)=** 1.93E+00	**LL(2)=**1.75E+00

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	6.10E+00	1.81E+00
4/22/2002	6.10E+00	1.81E+00
7/15/2002	6.10E+00	1.81E+00
10/8/2002	6.50E+00	1.87E+00
1/8/2003	6.50E+00	1.87E+00
4/3/2003	6.60E+00	1.89E+00
7/8/2003	6.50E+00	1.87E+00
10/6/2003	6.50E+00	1.87E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	6.10E+00	1.81E+00
4/23/2002	6.12E+00	1.81E+00
7/16/2002	6.10E+00	1.81E+00
10/8/2002	6.06E+00	1.80E+00
1/7/2003	6.26E+00	1.83E+00
4/2/2003	6.15E+00	1.82E+00
7/9/2003	6.30E+00	1.84E+00
10/7/2003	6.40E+00	1.86E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)? Result <LL(1)?	LN(Result)	LN(Result) >TL(2)? LN(Result) <LL(2)?
MW357	Downgradient	Yes	5.99E+00	NO	1.79E+00	N/A
MW360	Downgradient	Yes	6.13E+00	NO	1.81E+00	N/A
MW363	Downgradient	Yes	6.17E+00	NO	1.82E+00	N/A
MW366	Downgradient	Yes	5.99E+00	NO	1.79E+00	N/A
MW369	Upgradient	Yes	6.06E+00	NO	1.80E+00	N/A
MW372	Upgradient	Yes	6.11E+00	NO	1.81E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Potassium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.663	**S=** 0.488	**CV(1)=** 0.293	**K factor**=** 2.523	**TL(1)=** 2.89E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.456	**S=** 0.362	**CV(2)=** 0.794	**K factor**=** 2.523	**TL(2)=** 1.37E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/22/2002	2.21E+00	7.93E-01
7/15/2002	2.00E+00	6.93E-01
10/8/2002	9.66E-01	-3.46E-02
1/8/2003	7.27E-01	-3.19E-01
4/3/2003	8.00E-01	-2.23E-01
7/8/2003	1.62E+00	4.82E-01
10/6/2003	1.14E+00	1.31E-01

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	2.04E+00	7.13E-01
4/23/2002	2.03E+00	7.08E-01
7/16/2002	2.00E+00	6.93E-01
10/8/2002	1.54E+00	4.32E-01
1/7/2003	1.88E+00	6.31E-01
4/2/2003	2.09E+00	7.37E-01
7/9/2003	1.78E+00	5.77E-01
10/7/2003	1.79E+00	5.82E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	1.61E+00	NO	4.76E-01	N/A
MW360	Downgradient	Yes	6.80E-01	NO	-3.86E-01	N/A
MW363	Downgradient	Yes	1.94E+00	NO	6.63E-01	N/A
MW366	Downgradient	Yes	2.09E+00	NO	7.37E-01	N/A
MW369	Upgradient	Yes	5.37E-01	NO	-6.22E-01	N/A
MW372	Upgradient	Yes	2.01E+00	NO	6.98E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Sodium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 45.100	**S=** 11.875	**CV(1)=** 0.263	**K factor**=** 2.523	**TL(1)=** 7.51E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.780	**S=** 0.242	**CV(2)=** 0.064	**K factor**=** 2.523	**TL(2)=** 4.39E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	3.57E+01	3.58E+00
4/22/2002	3.76E+01	3.63E+00
7/15/2002	4.24E+01	3.75E+00
10/8/2002	6.69E+01	4.20E+00
1/8/2003	6.79E+01	4.22E+00
4/3/2003	6.18E+01	4.12E+00
7/8/2003	4.56E+01	3.82E+00
10/6/2003	5.91E+01	4.08E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	3.72E+01	3.62E+00
4/23/2002	3.86E+01	3.65E+00
7/16/2002	3.56E+01	3.57E+00
10/8/2002	3.75E+01	3.62E+00
1/7/2003	3.41E+01	3.53E+00
4/2/2003	3.44E+01	3.54E+00
7/9/2003	4.41E+01	3.79E+00
10/7/2003	4.31E+01	3.76E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	4.19E+01	NO	3.74E+00	N/A
MW360	Downgradient	Yes	6.28E+01	NO	4.14E+00	N/A
MW363	Downgradient	Yes	3.84E+01	NO	3.65E+00	N/A
MW366	Downgradient	Yes	4.78E+01	NO	3.87E+00	N/A
MW369	Upgradient	Yes	5.23E+01	NO	3.96E+00	N/A
MW372	Upgradient	Yes	6.77E+01	NO	4.22E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Sulfate UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 45.031	**S=** 33.919	**CV(1)=** 0.753	**K factor**=** 2.523	**TL(1)=** 1.31E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.420	**S=** 0.981	**CV(2)=** 0.287	**K factor**=** 2.523	**TL(2)=** 5.89E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	1.55E+01	2.74E+00
4/22/2002	1.58E+01	2.76E+00
7/15/2002	1.38E+01	2.62E+00
10/8/2002	6.90E+00	1.93E+00
1/8/2003	1.05E+01	2.35E+00
4/3/2003	1.05E+01	2.35E+00
7/8/2003	1.09E+01	2.39E+00
10/6/2003	1.63E+01	2.79E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	7.17E+01	4.27E+00
4/23/2002	7.47E+01	4.31E+00
7/16/2002	7.41E+01	4.31E+00
10/8/2002	7.05E+01	4.26E+00
1/7/2003	7.58E+01	4.33E+00
4/2/2003	8.18E+01	4.40E+00
7/9/2003	8.36E+01	4.43E+00
10/7/2003	8.81E+01	4.48E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	3.44E+01	NO	3.54E+00	N/A
MW360	Downgradient	Yes	1.03E+01	NO	2.33E+00	N/A
MW363	Downgradient	Yes	2.63E+01	NO	3.27E+00	N/A
MW366	Downgradient	Yes	5.00E+01	NO	3.91E+00	N/A
MW369	Upgradient	Yes	7.64E+00	NO	2.03E+00	N/A
MW372	Upgradient	Yes	1.51E+02	YES	5.02E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW372

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Technetium-99 UNITS: pCi/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 20.821	**S=** 18.044	**CV(1)=** 0.867	**K factor**=** 2.523	**TL(1)=** 6.63E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.770	**S=** 1.150	**CV(2)=** 0.415	**K factor**=** 2.523	**TL(2)=** 3.97E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	4.17E+01	3.73E+00
4/22/2002	5.31E+01	3.97E+00
7/15/2002	1.81E+01	2.90E+00
10/8/2002	1.64E+01	2.80E+00
1/8/2003	3.49E+00	1.25E+00
4/3/2003	9.34E+00	2.23E+00
7/8/2003	1.75E+01	2.86E+00
10/6/2003	1.70E+01	2.83E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	4.48E+01	3.80E+00
4/23/2002	8.02E-01	-2.21E-01
7/16/2002	1.98E+01	2.99E+00
10/8/2002	4.61E+01	3.83E+00
1/7/2003	-9.73E-01	#Func!
4/2/2003	9.07E+00	2.20E+00
7/9/2003	0.00E+00	#Func!
10/7/2003	3.69E+01	3.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	3.67E+01	NO	3.60E+00	N/A
MW360	Downgradient	No	8.16E+00	N/A	2.10E+00	N/A
MW363	Downgradient	No	7.63E-01	N/A	-2.70E-01	N/A
MW366	Downgradient	Yes	7.50E+01	YES	4.32E+00	N/A
MW369	Upgradient	Yes	5.08E+01	NO	3.93E+00	N/A
MW372	Upgradient	Yes	5.37E+01	NO	3.98E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW366

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Total Organic Carbon (TOC) UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 3.513	**S=** 4.307	**CV(1)=** 1.226	**K factor**=** 2.523	**TL(1)=** 1.44E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.851	**S=** 0.828	**CV(2)=** 0.973	**K factor**=** 2.523	**TL(2)=** 2.94E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	1.70E+00	5.31E-01
4/22/2002	1.60E+00	4.70E-01
7/15/2002	3.10E+00	1.13E+00
10/8/2002	1.77E+01	2.87E+00
1/8/2003	9.00E+00	2.20E+00
4/3/2003	4.00E+00	1.39E+00
7/8/2003	4.90E+00	1.59E+00
10/6/2003	2.40E+00	8.75E-01

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	1.00E+00	0.00E+00
4/23/2002	1.20E+00	1.82E-01
7/16/2002	1.00E+00	0.00E+00
10/8/2002	1.00E+00	0.00E+00
1/7/2003	1.60E+00	4.70E-01
4/2/2003	1.50E+00	4.05E-01
7/9/2003	3.00E+00	1.10E+00
10/7/2003	1.50E+00	4.05E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	5.64E-01	N/A	-5.73E-01	NO
MW360	Downgradient	Yes	1.02E+00	N/A	1.98E-02	NO
MW363	Downgradient	Yes	1.05E+00	N/A	4.88E-02	NO
MW366	Downgradient	Yes	7.92E-01	N/A	-2.33E-01	NO
MW369	Upgradient	Yes	9.49E-01	N/A	-5.23E-02	NO
MW372	Upgradient	Yes	9.91E-01	N/A	-9.04E-03	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Total Organic Halides (TOX) UNITS: ug/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 67.963	**S=** 64.316	**CV(1)=** 0.946	**K factor**=** 2.523	**TL(1)=** 2.30E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.772	**S=** 1.023	**CV(2)=** 0.271	**K factor**=** 2.523	**TL(2)=** 6.35E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	5.00E+01	3.91E+00
4/22/2002	5.00E+01	3.91E+00
7/15/2002	8.10E+01	4.39E+00
10/8/2002	2.02E+02	5.31E+00
1/8/2003	1.77E+02	5.18E+00
4/3/2003	9.31E+01	4.53E+00
7/8/2003	1.75E+01	2.86E+00
10/6/2003	3.75E+01	3.62E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	1.84E+02	5.21E+00
4/23/2002	5.00E+01	3.91E+00
7/16/2002	5.00E+01	3.91E+00
10/8/2002	5.00E+01	3.91E+00
1/7/2003	1.00E+01	2.30E+00
4/2/2003	1.27E+01	2.54E+00
7/9/2003	1.00E+01	2.30E+00
10/7/2003	1.26E+01	2.53E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	7.90E+00	NO	2.07E+00	N/A
MW360	Downgradient	Yes	3.79E+00	NO	1.33E+00	N/A
MW363	Downgradient	Yes	6.20E+00	NO	1.82E+00	N/A
MW366	Downgradient	Yes	6.56E+00	NO	1.88E+00	N/A
MW369	Upgradient	Yes	1.42E+01	NO	2.65E+00	N/A
MW372	Upgradient	Yes	1.75E+01	NO	2.86E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Vanadium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.024	**S=** 0.006	**CV(1)=** 0.259	**K factor**=** 2.523	**TL(1)=** 3.91E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.771	**S=** 0.223	**CV(2)=** -0.059	**K factor**=** 2.523	**TL(2)=** -3.21E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/22/2002	2.70E-02	-3.61E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	2.00E-02	-3.91E+00
1/8/2003	2.00E-02	-3.91E+00
4/3/2003	2.00E-02	-3.91E+00
7/8/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	3.90E-02	-3.24E+00
4/23/2002	3.70E-02	-3.30E+00
7/16/2002	2.50E-02	-3.69E+00
10/8/2002	2.00E-02	-3.91E+00
1/7/2003	2.00E-02	-3.91E+00
4/2/2003	2.00E-02	-3.91E+00
7/9/2003	2.00E-02	-3.91E+00
10/7/2003	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW360	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW363	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW366	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW369	Upgradient	Yes	3.50E-03	NO	-5.65E+00	N/A
MW372	Upgradient	No	2.00E-02	N/A	-3.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Zinc UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.116	**S=** 0.173	**CV(1)=** 1.490	**K factor**=** 2.523	**TL(1)=** 5.52E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -2.729	**S=** 1.014	**CV(2)=** -0.371	**K factor**=** 2.523	**TL(2)=** -1.72E-01	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	1.00E-01	-2.30E+00
4/22/2002	1.00E-01	-2.30E+00
7/15/2002	1.00E-01	-2.30E+00
10/8/2002	2.50E-02	-3.69E+00
1/8/2003	3.50E-02	-3.35E+00
4/3/2003	3.50E-02	-3.35E+00
7/8/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	7.25E-01	-3.22E-01
4/23/2002	1.00E-01	-2.30E+00
7/16/2002	1.00E-01	-2.30E+00
10/8/2002	2.50E-02	-3.69E+00
1/7/2003	3.50E-02	-3.35E+00
4/2/2003	3.50E-02	-3.35E+00
7/9/2003	2.00E-01	-1.61E+00
10/7/2003	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	3.49E-03	N/A	-5.66E+00	NO
MW360	Downgradient	Yes	5.30E-03	N/A	-5.24E+00	NO
MW363	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW366	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW369	Upgradient	Yes	4.67E-03	N/A	-5.37E+00	NO
MW372	Upgradient	Yes	4.38E-03	N/A	-5.43E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Aluminum UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 2.026	**S=** 5.626	**CV(1)=**2.777	**K factor**=** 2.523	**TL(1)=** 1.62E+01	**LL(1)=**N/A
Statistics-Transformed Background Data	**X=** -0.803	**S=** 1.380	**CV(2)=**-1.718	**K factor**=** 2.523	**TL(2)=** 2.68E+00	**LL(2)=**N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	4.66E+00	1.54E+00
4/23/2002	2.00E-01	-1.61E+00
7/15/2002	2.00E-01	-1.61E+00
10/8/2002	2.00E-01	-1.61E+00
1/8/2003	2.00E-01	-1.61E+00
4/3/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-01	-1.61E+00
10/6/2003	2.00E-01	-1.61E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.27E+01	3.12E+00
4/23/2002	1.46E+00	3.78E-01
7/16/2002	2.53E-01	-1.37E+00
10/8/2002	4.82E-01	-7.30E-01
1/7/2003	6.08E-01	-4.98E-01
4/2/2003	4.46E-01	-8.07E-01
7/9/2003	2.00E-01	-1.61E+00
10/7/2003	2.00E-01	-1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.14E-02	N/A	-3.84E+00	NO
MW361	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW364	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW367	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW370	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW373	Upgradient	No	5.00E-02	N/A	-3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Boron **UNITS: mg/L** **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.140	**S=** 0.780	**CV(1)=** 0.684	**K factor**=** 2.523	**TL(1)=** 3.11E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.235	**S=** 1.006	**CV(2)=** -4.287	**K factor**=** 2.523	**TL(2)=** 2.30E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.00E+00	6.93E-01
4/23/2002	2.00E+00	6.93E-01
7/15/2002	2.00E+00	6.93E-01
10/8/2002	2.00E-01	-1.61E+00
1/8/2003	2.00E-01	-1.61E+00
4/3/2003	2.00E-01	-1.61E+00
7/9/2003	2.00E-01	-1.61E+00
10/6/2003	2.00E-01	-1.61E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/23/2002	2.00E+00	6.93E-01
7/16/2002	2.00E+00	6.93E-01
10/8/2002	7.90E-01	-2.36E-01
1/7/2003	8.07E-01	-2.14E-01
4/2/2003	1.13E+00	1.22E-01
7/9/2003	1.28E+00	2.47E-01
10/7/2003	1.24E+00	2.15E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.36E-01	NO	-1.44E+00	N/A
MW361	Downgradient	Yes	2.43E-01	NO	-1.41E+00	N/A
MW364	Downgradient	Yes	2.12E-01	NO	-1.55E+00	N/A
MW367	Downgradient	Yes	2.59E-02	NO	-3.65E+00	N/A
MW370	Upgradient	Yes	7.49E-02	NO	-2.59E+00	N/A
MW373	Upgradient	Yes	3.01E+00	NO	1.10E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Bromide UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.000	**S=** 0.000	**CV(1)=**0.000	**K factor**=** 2.523	**TL(1)=** 1.00E+00	**LL(1)=**N/A
Statistics-Transformed Background Data	**X=** 0.000	**S=** 0.000	**CV(2)=**#Num!	**K factor**=** 2.523	**TL(2)=** 0.00E+00	**LL(2)=**N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.00E+00	0.00E+00
4/23/2002	1.00E+00	0.00E+00
7/15/2002	1.00E+00	0.00E+00
10/8/2002	1.00E+00	0.00E+00
1/8/2003	1.00E+00	0.00E+00
4/3/2003	1.00E+00	0.00E+00
7/9/2003	1.00E+00	0.00E+00
10/6/2003	1.00E+00	0.00E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	1.00E+00	0.00E+00
4/23/2002	1.00E+00	0.00E+00
7/16/2002	1.00E+00	0.00E+00
10/8/2002	1.00E+00	0.00E+00
1/7/2003	1.00E+00	0.00E+00
4/2/2003	1.00E+00	0.00E+00
7/9/2003	1.00E+00	0.00E+00
10/7/2003	1.00E+00	0.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.71E-01	NO	-1.31E+00	N/A
MW361	Downgradient	Yes	4.71E-01	NO	-7.53E-01	N/A
MW364	Downgradient	Yes	4.60E-01	NO	-7.77E-01	N/A
MW367	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW370	Upgradient	Yes	5.03E-01	NO	-6.87E-01	N/A
MW373	Upgradient	Yes	2.84E-01	NO	-1.26E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Calcium UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 43.413	**S=** 13.444	**CV(1)=** 0.310	**K factor**=** 2.523	**TL(1)=** 7.73E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.723	**S=** 0.323	**CV(2)=** 0.087	**K factor**=** 2.523	**TL(2)=** 4.54E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	3.48E+01	3.55E+00
4/23/2002	4.34E+01	3.77E+00
7/15/2002	3.32E+01	3.50E+00
10/8/2002	2.92E+01	3.37E+00
1/8/2003	3.13E+01	3.44E+00
4/3/2003	3.24E+01	3.48E+00
7/9/2003	2.29E+01	3.13E+00
10/6/2003	2.80E+01	3.33E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	6.19E+01	4.13E+00
4/23/2002	5.92E+01	4.08E+00
7/16/2002	4.76E+01	3.86E+00
10/8/2002	4.61E+01	3.83E+00
1/7/2003	4.92E+01	3.90E+00
4/2/2003	5.78E+01	4.06E+00
7/9/2003	5.27E+01	3.96E+00
10/7/2003	6.49E+01	4.17E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	3.13E+01	NO	3.44E+00	N/A
MW361	Downgradient	Yes	3.34E+01	NO	3.51E+00	N/A
MW364	Downgradient	Yes	3.37E+01	NO	3.52E+00	N/A
MW367	Downgradient	Yes	1.52E+01	NO	2.72E+00	N/A
MW370	Upgradient	Yes	2.68E+01	NO	3.29E+00	N/A
MW373	Upgradient	Yes	8.76E+01	YES	4.47E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison
Chemical Oxygen Demand (COD) UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 41.938	**S=** 24.732	**CV(1)=** 0.590	**K factor**=** 2.523	**TL(1)=** 1.04E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.658	**S=** 0.339	**CV(2)=** 0.093	**K factor**=** 2.523	**TL(2)=** 4.51E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	3.50E+01	3.56E+00
4/23/2002	1.34E+02	4.90E+00
7/15/2002	3.50E+01	3.56E+00
10/8/2002	3.50E+01	3.56E+00
1/8/2003	3.50E+01	3.56E+00
4/3/2003	3.50E+01	3.56E+00
7/9/2003	3.50E+01	3.56E+00
10/6/2003	3.50E+01	3.56E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	3.50E+01	3.56E+00
4/23/2002	4.70E+01	3.85E+00
7/16/2002	3.50E+01	3.56E+00
10/8/2002	3.50E+01	3.56E+00
1/7/2003	3.50E+01	3.56E+00
4/2/2003	3.50E+01	3.56E+00
7/9/2003	3.50E+01	3.56E+00
10/7/2003	3.50E+01	3.56E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW361	Downgradient	Yes	9.82E+00	NO	2.28E+00	N/A
MW364	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW367	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW370	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW373	Upgradient	No	2.00E+01	N/A	3.00E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Chloride UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 45.919	**S=** 7.524	**CV(1)=** 0.164	**K factor**=** 2.523	**TL(1)=** 6.49E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.814	**S=** 0.165	**CV(2)=** 0.043	**K factor**=** 2.523	**TL(2)=** 4.23E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
7/15/2002	5.55E+01	4.02E+00
10/8/2002	5.36E+01	3.98E+00
1/8/2003	5.29E+01	3.97E+00
4/3/2003	5.36E+01	3.98E+00
7/9/2003	5.19E+01	3.95E+00
10/6/2003	5.30E+01	3.97E+00
1/7/2004	5.30E+01	3.97E+00
4/7/2004	5.16E+01	3.94E+00

Well Number: MW373

Date Collected	Result	LN(Result)
7/16/2002	4.06E+01	3.70E+00
10/8/2002	3.88E+01	3.66E+00
1/7/2003	3.90E+01	3.66E+00
4/2/2003	3.84E+01	3.65E+00
7/9/2003	3.81E+01	3.64E+00
10/7/2003	3.80E+01	3.64E+00
1/6/2004	3.79E+01	3.63E+00
4/7/2004	3.88E+01	3.66E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.26E+01	NO	3.12E+00	N/A
MW361	Downgradient	Yes	3.97E+01	NO	3.68E+00	N/A
MW364	Downgradient	Yes	3.81E+01	NO	3.64E+00	N/A
MW367	Downgradient	Yes	9.70E+00	NO	2.27E+00	N/A
MW370	Upgradient	Yes	4.18E+01	NO	3.73E+00	N/A
MW373	Upgradient	Yes	2.83E+01	NO	3.34E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Cobalt UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.027	**S=** 0.032	**CV(1)=** 1.165	**K factor**=** 2.523	**TL(1)=** 1.08E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.058	**S=** 1.011	**CV(2)=** -0.249	**K factor**=** 2.523	**TL(2)=** -1.51E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.50E-02	-3.69E+00
4/23/2002	2.50E-02	-3.69E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	1.74E-02	-4.05E+00
1/8/2003	1.05E-02	-4.56E+00
4/3/2003	9.31E-03	-4.68E+00
7/9/2003	1.37E-01	-1.99E+00
10/6/2003	4.63E-02	-3.07E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/23/2002	3.40E-02	-3.38E+00
7/16/2002	2.50E-02	-3.69E+00
10/8/2002	4.11E-03	-5.49E+00
1/7/2003	3.44E-03	-5.67E+00
4/2/2003	3.68E-03	-5.60E+00
7/9/2003	4.05E-02	-3.21E+00
10/7/2003	8.43E-03	-4.78E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.56E-02	N/A	-3.67E+00	NO
MW361	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW364	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW367	Downgradient	Yes	6.34E-03	N/A	-5.06E+00	NO
MW370	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW373	Upgradient	Yes	4.73E-04	N/A	-7.66E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Conductivity UNITS: umho/cm LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 608.719	**S=** 156.157	**CV(1)=** 0.257	**K factor**=** 2.523	**TL(1)=** 1.00E+03	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.380	**S=** 0.260	**CV(2)=** 0.041	**K factor**=** 2.523	**TL(2)=** 7.04E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	4.06E+02	6.01E+00
4/23/2002	5.43E+02	6.30E+00
7/15/2002	4.76E+02	6.17E+00
10/8/2002	4.41E+02	6.09E+00
1/8/2003	4.86E+02	6.19E+00
4/3/2003	4.66E+02	6.14E+00
7/9/2003	4.79E+02	6.17E+00
10/6/2003	4.35E+02	6.08E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	6.61E+02	6.49E+00
4/23/2002	8.01E+02	6.69E+00
7/16/2002	7.74E+02	6.65E+00
10/8/2002	6.80E+02	6.52E+00
1/7/2003	6.87E+02	6.53E+00
4/2/2003	7.63E+02	6.64E+00
7/9/2003	8.28E+02	6.72E+00
10/7/2003	8.14E+02	6.70E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	4.75E+02	NO	6.16E+00	N/A
MW361	Downgradient	Yes	5.16E+02	NO	6.25E+00	N/A
MW364	Downgradient	Yes	4.69E+02	NO	6.15E+00	N/A
MW367	Downgradient	Yes	2.40E+02	NO	5.48E+00	N/A
MW370	Upgradient	Yes	4.25E+02	NO	6.05E+00	N/A
MW373	Upgradient	Yes	9.62E+02	NO	6.87E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Copper UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.025	**S=** 0.010	**CV(1)=** 0.399	**K factor**=** 2.523	**TL(1)=** 5.03E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.739	**S=** 0.308	**CV(2)=** -0.082	**K factor**=** 2.523	**TL(2)=** -2.96E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.50E-02	-3.69E+00
4/23/2002	2.50E-02	-3.69E+00
7/15/2002	5.00E-02	-3.00E+00
10/8/2002	2.00E-02	-3.91E+00
1/8/2003	2.00E-02	-3.91E+00
4/3/2003	2.00E-02	-3.91E+00
7/9/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.60E-02	-3.65E+00
4/23/2002	2.50E-02	-3.69E+00
7/16/2002	5.00E-02	-3.00E+00
10/8/2002	2.00E-02	-3.91E+00
1/7/2003	2.00E-02	-3.91E+00
4/2/2003	2.00E-02	-3.91E+00
7/9/2003	2.00E-02	-3.91E+00
10/7/2003	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	1.06E-03	NO	-6.85E+00	N/A
MW361	Downgradient	Yes	8.97E-04	NO	-7.02E+00	N/A
MW364	Downgradient	Yes	7.78E-04	NO	-7.16E+00	N/A
MW367	Downgradient	Yes	6.67E-04	NO	-7.31E+00	N/A
MW370	Upgradient	Yes	6.71E-04	NO	-7.31E+00	N/A
MW373	Upgradient	Yes	6.93E-04	NO	-7.27E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Dissolved Oxygen UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.387	**S=** 1.153	**CV(1)=** 0.831	**K factor**=** 2.523	**TL(1)=** 4.30E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.115	**S=** 1.207	**CV(2)=** -10.514	**K factor**=** 2.523	**TL(2)=** 2.93E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	4.32E+00	1.46E+00
4/23/2002	1.24E+00	2.15E-01
7/15/2002	7.50E-01	-2.88E-01
10/8/2002	9.40E-01	-6.19E-02
1/8/2003	3.08E+00	1.12E+00
4/3/2003	1.45E+00	3.72E-01
7/9/2003	1.22E+00	1.99E-01
10/6/2003	1.07E+00	6.77E-02

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	3.04E+00	1.11E+00
4/23/2002	3.00E-02	-3.51E+00
7/16/2002	2.30E-01	-1.47E+00
10/8/2002	8.60E-01	-1.51E-01
1/7/2003	2.10E-01	-1.56E+00
4/2/2003	1.19E+00	1.74E-01
7/9/2003	1.10E+00	9.53E-02
10/7/2003	1.46E+00	3.78E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	1.40E+00	NO	3.36E-01	N/A
MW361	Downgradient	Yes	4.51E+00	YES	1.51E+00	N/A
MW364	Downgradient	Yes	3.79E+00	NO	1.33E+00	N/A
MW367	Downgradient	Yes	2.24E+00	NO	8.06E-01	N/A
MW370	Upgradient	Yes	4.90E+00	YES	1.59E+00	N/A
MW373	Upgradient	Yes	1.62E+00	NO	4.82E-01	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW361
MW370

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Dissolved Solids UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 356.188	**S=** 106.752	**CV(1)=** 0.300	**K factor**=** 2.523	**TL(1)=** 6.26E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.831	**S=** 0.311	**CV(2)=** 0.053	**K factor**=** 2.523	**TL(2)=** 6.62E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.36E+02	5.46E+00
4/23/2002	3.37E+02	5.82E+00
7/15/2002	2.66E+02	5.58E+00
10/8/2002	2.40E+02	5.48E+00
1/8/2003	2.82E+02	5.64E+00
4/3/2003	2.38E+02	5.47E+00
7/9/2003	2.48E+02	5.51E+00
10/6/2003	2.24E+02	5.41E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	4.27E+02	6.06E+00
4/23/2002	5.07E+02	6.23E+00
7/16/2002	4.64E+02	6.14E+00
10/8/2002	4.08E+02	6.01E+00
1/7/2003	4.04E+02	6.00E+00
4/2/2003	4.50E+02	6.11E+00
7/9/2003	4.87E+02	6.19E+00
10/7/2003	4.81E+02	6.18E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.26E+02	NO	5.42E+00	N/A
MW361	Downgradient	Yes	2.88E+02	NO	5.66E+00	N/A
MW364	Downgradient	Yes	3.04E+02	NO	5.72E+00	N/A
MW367	Downgradient	Yes	1.28E+02	NO	4.85E+00	N/A
MW370	Upgradient	Yes	2.26E+02	NO	5.42E+00	N/A
MW373	Upgradient	Yes	6.36E+02	YES	6.46E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Iron UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 9.230	**S=** 8.841	**CV(1)=** 0.958	**K factor**=** 2.523	**TL(1)=** 3.15E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.942	**S=** 0.713	**CV(2)=** 0.367	**K factor**=** 2.523	**TL(2)=** 3.74E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	9.34E+00	2.23E+00
4/23/2002	4.33E+00	1.47E+00
7/15/2002	3.52E+00	1.26E+00
10/8/2002	7.45E+00	2.01E+00
1/8/2003	7.04E+00	1.95E+00
4/3/2003	4.64E+00	1.53E+00
7/9/2003	1.58E+01	2.76E+00
10/6/2003	6.49E+00	1.87E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	3.76E+01	3.63E+00
4/23/2002	1.90E+01	2.94E+00
7/16/2002	1.07E+01	2.37E+00
10/8/2002	3.75E+00	1.32E+00
1/7/2003	3.87E+00	1.35E+00
4/2/2003	3.50E+00	1.25E+00
7/9/2003	7.72E+00	2.04E+00
10/7/2003	2.93E+00	1.08E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	8.56E+00	NO	2.15E+00	N/A
MW361	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW364	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW367	Downgradient	Yes	3.96E+00	NO	1.38E+00	N/A
MW370	Upgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW373	Upgradient	Yes	4.51E-02	NO	-3.10E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Magnesium UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 17.544	**S=** 5.911	**CV(1)=** 0.337	**K factor**=** 2.523	**TL(1)=** 3.25E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.810	**S=** 0.343	**CV(2)=** 0.122	**K factor**=** 2.523	**TL(2)=** 3.68E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.21E+01	2.49E+00
4/23/2002	1.51E+01	2.71E+00
7/15/2002	1.24E+01	2.52E+00
10/8/2002	1.22E+01	2.50E+00
1/8/2003	1.15E+01	2.44E+00
4/3/2003	1.23E+01	2.51E+00
7/9/2003	1.00E+01	2.30E+00
10/6/2003	1.21E+01	2.49E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.48E+01	3.21E+00
4/23/2002	2.27E+01	3.12E+00
7/16/2002	1.88E+01	2.93E+00
10/8/2002	2.11E+01	3.05E+00
1/7/2003	1.99E+01	2.99E+00
4/2/2003	2.55E+01	3.24E+00
7/9/2003	2.33E+01	3.15E+00
10/7/2003	2.69E+01	3.29E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	1.54E+01	NO	2.73E+00	N/A
MW361	Downgradient	Yes	1.47E+01	NO	2.69E+00	N/A
MW364	Downgradient	Yes	1.46E+01	NO	2.68E+00	N/A
MW367	Downgradient	Yes	8.39E+00	NO	2.13E+00	N/A
MW370	Upgradient	Yes	1.20E+01	NO	2.48E+00	N/A
MW373	Upgradient	Yes	3.26E+01	YES	3.48E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Manganese UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 1.080	**S=** 0.674	**CV(1)=** 0.624	**K factor**=** 2.523	**TL(1)=** 2.78E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -0.114	**S=** 0.658	**CV(2)=** -5.762	**K factor**=** 2.523	**TL(2)=** 1.55E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.44E-01	-1.41E+00
4/23/2002	1.82E+00	5.99E-01
7/15/2002	1.22E+00	1.99E-01
10/8/2002	9.88E-01	-1.21E-02
1/8/2003	7.29E-01	-3.16E-01
4/3/2003	6.37E-01	-4.51E-01
7/9/2003	2.51E+00	9.20E-01
10/6/2003	1.05E+00	4.88E-02

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	3.55E-01	-1.04E+00
4/23/2002	2.16E+00	7.70E-01
7/16/2002	1.39E+00	3.29E-01
10/8/2002	7.17E-01	-3.33E-01
1/7/2003	5.87E-01	-5.33E-01
4/2/2003	5.45E-01	-6.07E-01
7/9/2003	1.76E+00	5.65E-01
10/7/2003	5.70E-01	-5.62E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.22E+00	NO	7.98E-01	N/A
MW361	Downgradient	Yes	1.27E-03	NO	-6.67E+00	N/A
MW364	Downgradient	Yes	4.85E-03	NO	-5.33E+00	N/A
MW367	Downgradient	Yes	1.30E+00	NO	2.62E-01	N/A
MW370	Upgradient	Yes	1.47E-03	NO	-6.52E+00	N/A
MW373	Upgradient	Yes	6.37E-02	NO	-2.75E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Molybdenum UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.010	**S=** 0.012	**CV(1)=** 1.198	**K factor**=** 2.523	**TL(1)=** 4.03E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -5.693	**S=** 1.604	**CV(2)=** -0.282	**K factor**=** 2.523	**TL(2)=** -1.65E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.50E-02	-3.69E+00
4/23/2002	2.50E-02	-3.69E+00
7/15/2002	2.50E-02	-3.69E+00
10/8/2002	1.13E-03	-6.79E+00
1/8/2003	1.00E-03	-6.91E+00
4/3/2003	1.00E-03	-6.91E+00
7/9/2003	1.00E-03	-6.91E+00
10/6/2003	1.00E-03	-6.91E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.50E-02	-3.69E+00
4/23/2002	2.50E-02	-3.69E+00
7/16/2002	2.50E-02	-3.69E+00
10/8/2002	1.00E-03	-6.91E+00
1/7/2003	1.00E-03	-6.91E+00
4/2/2003	1.00E-03	-6.91E+00
7/9/2003	1.00E-03	-6.91E+00
10/7/2003	1.00E-03	-6.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	4.72E-04	N/A	-7.66E+00	NO
MW361	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW364	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW367	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW370	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW373	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Nickel UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.024	**S=** 0.022	**CV(1)=** 0.901	**K factor**=** 2.523	**TL(1)=** 7.82E-02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -4.239	**S=** 1.087	**CV(2)=** -0.256	**K factor**=** 2.523	**TL(2)=** -1.50E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	5.00E-02	-3.00E+00
4/23/2002	5.00E-02	-3.00E+00
7/15/2002	5.00E-02	-3.00E+00
10/8/2002	5.00E-03	-5.30E+00
1/8/2003	5.00E-03	-5.30E+00
4/3/2003	5.00E-03	-5.30E+00
7/9/2003	2.64E-02	-3.63E+00
10/6/2003	9.71E-03	-4.63E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	5.00E-02	-3.00E+00
4/23/2002	5.00E-02	-3.00E+00
7/16/2002	5.00E-02	-3.00E+00
10/8/2002	5.00E-03	-5.30E+00
1/7/2003	5.00E-03	-5.30E+00
4/2/2003	5.00E-03	-5.30E+00
7/9/2003	1.12E-02	-4.49E+00
10/7/2003	5.00E-03	-5.30E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	5.31E-02	NO	-2.94E+00	N/A
MW361	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW364	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW367	Downgradient	Yes	2.55E-03	NO	-5.97E+00	N/A
MW370	Upgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW373	Upgradient	Yes	1.58E-03	NO	-6.45E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Oxidation-Reduction Potential UNITS: mV LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 46.688	**S=** 60.986	**CV(1)=** 1.306	**K factor**=** 2.523	**TL(1)=** 2.01E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.829	**S=** 1.151	**CV(2)=** 0.301	**K factor**=** 2.523	**TL(2)=** 4.94E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.40E+02	4.94E+00
4/23/2002	-1.50E+01	#Func!
7/15/2002	5.00E+00	1.61E+00
4/3/2003	4.90E+01	3.89E+00
7/9/2003	-3.50E+01	#Func!
10/6/2003	4.00E+01	3.69E+00
1/7/2004	1.01E+02	4.62E+00
4/7/2004	1.05E+02	4.65E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	1.40E+02	4.94E+00
4/23/2002	-2.00E+01	#Func!
10/8/2002	1.00E+01	2.30E+00
1/7/2003	1.00E+01	2.30E+00
4/2/2003	6.70E+01	4.20E+00
7/9/2003	-2.90E+01	#Func!
10/7/2003	1.27E+02	4.84E+00
1/6/2004	5.20E+01	3.95E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	1.74E+02	N/A	5.16E+00	YES
MW361	Downgradient	Yes	5.42E+02	N/A	6.29E+00	YES
MW364	Downgradient	Yes	4.72E+02	N/A	6.16E+00	YES
MW367	Downgradient	Yes	3.03E+02	N/A	5.71E+00	YES
MW370	Upgradient	Yes	4.57E+02	N/A	6.12E+00	YES
MW373	Upgradient	Yes	3.91E+02	N/A	5.97E+00	YES

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW358
MW361
MW364
MW367
MW370
MW373

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

pH **UNITS: Std Unit** **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.283	**S=** 0.159	**CV(1)=**0.025	**K factor**=** 2.904	**TL(1)=** 6.74E+00	**LL(1)=**5.82E+00
Statistics-Transformed Background Data	**X=** 1.837	**S=** 0.025	**CV(2)=**0.014	**K factor**=** 2.904	**TL(2)=** 1.91E+00	**LL(2)=**1.76E+00

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	6.30E+00	1.84E+00
4/23/2002	6.40E+00	1.86E+00
7/15/2002	6.30E+00	1.84E+00
10/8/2002	6.30E+00	1.84E+00
1/8/2003	6.40E+00	1.86E+00
4/3/2003	6.50E+00	1.87E+00
7/9/2003	6.30E+00	1.84E+00
10/6/2003	6.50E+00	1.87E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	6.00E+00	1.79E+00
4/23/2002	6.30E+00	1.84E+00
7/16/2002	6.45E+00	1.86E+00
10/8/2002	6.18E+00	1.82E+00
1/7/2003	6.35E+00	1.85E+00
4/2/2003	6.14E+00	1.81E+00
7/9/2003	6.10E+00	1.81E+00
10/7/2003	6.00E+00	1.79E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)? Result <LL(1)?	LN(Result)	LN(Result) >TL(2)? LN(Result) <LL(2)?
MW358	Downgradient	Yes	6.18E+00	NO	1.82E+00	N/A
MW361	Downgradient	Yes	5.93E+00	NO	1.78E+00	N/A
MW364	Downgradient	Yes	5.92E+00	NO	1.78E+00	N/A
MW367	Downgradient	Yes	5.78E+00	YES	1.75E+00	N/A
MW370	Upgradient	Yes	6.00E+00	NO	1.79E+00	N/A
MW373	Upgradient	Yes	6.02E+00	NO	1.80E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW367

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Potassium UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 2.823	**S=** 0.522	**CV(1)=**0.185	**K factor**=** 2.523	**TL(1)=** 4.14E+00	**LL(1)=**N/A
Statistics-Transformed Background Data	**X=** 1.024	**S=** 0.167	**CV(2)=**0.163	**K factor**=** 2.523	**TL(2)=** 1.45E+00	**LL(2)=**N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	3.22E+00	1.17E+00
4/23/2002	3.43E+00	1.23E+00
7/15/2002	2.98E+00	1.09E+00
10/8/2002	2.46E+00	9.00E-01
1/8/2003	2.41E+00	8.80E-01
4/3/2003	2.43E+00	8.88E-01
7/9/2003	2.44E+00	8.92E-01
10/6/2003	2.48E+00	9.08E-01

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	4.34E+00	1.47E+00
4/23/2002	3.04E+00	1.11E+00
7/16/2002	2.93E+00	1.08E+00
10/8/2002	2.30E+00	8.33E-01
1/7/2003	2.45E+00	8.96E-01
4/2/2003	2.70E+00	9.93E-01
7/9/2003	2.68E+00	9.86E-01
10/7/2003	2.88E+00	1.06E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.85E+00	NO	1.05E+00	N/A
MW361	Downgradient	Yes	2.29E+00	NO	8.29E-01	N/A
MW364	Downgradient	Yes	2.06E+00	NO	7.23E-01	N/A
MW367	Downgradient	Yes	2.98E+00	NO	1.09E+00	N/A
MW370	Upgradient	Yes	2.34E+00	NO	8.50E-01	N/A
MW373	Upgradient	Yes	2.83E+00	NO	1.04E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Sodium UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 51.544	**S=** 15.227	**CV(1)=** 0.295	**K factor**=** 2.523	**TL(1)=** 9.00E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.906	**S=** 0.272	**CV(2)=** 0.070	**K factor**=** 2.523	**TL(2)=** 4.59E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	3.18E+01	3.46E+00
4/23/2002	5.00E+01	3.91E+00
7/15/2002	4.47E+01	3.80E+00
10/8/2002	4.00E+01	3.69E+00
1/8/2003	4.46E+01	3.80E+00
4/3/2003	4.19E+01	3.74E+00
7/9/2003	4.00E+01	3.69E+00
10/6/2003	3.81E+01	3.64E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	4.34E+01	3.77E+00
4/23/2002	7.98E+01	4.38E+00
7/16/2002	8.77E+01	4.47E+00
10/8/2002	6.16E+01	4.12E+00
1/7/2003	5.93E+01	4.08E+00
4/2/2003	6.21E+01	4.13E+00
7/9/2003	5.01E+01	3.91E+00
10/7/2003	4.96E+01	3.90E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	3.34E+01	NO	3.51E+00	N/A
MW361	Downgradient	Yes	4.33E+01	NO	3.77E+00	N/A
MW364	Downgradient	Yes	4.17E+01	NO	3.73E+00	N/A
MW367	Downgradient	Yes	1.98E+01	NO	2.99E+00	N/A
MW370	Upgradient	Yes	4.24E+01	NO	3.75E+00	N/A
MW373	Upgradient	Yes	7.73E+01	NO	4.35E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Sulfate UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 122.381	**S=** 195.095	**CV(1)=** 1.594	**K factor**=** 2.523	**TL(1)=** 6.15E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.985	**S=** 1.323	**CV(2)=** 0.332	**K factor**=** 2.523	**TL(2)=** 7.32E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.74E+01	2.86E+00
4/23/2002	3.79E+01	3.63E+00
7/15/2002	1.57E+01	2.75E+00
10/8/2002	1.34E+01	2.60E+00
1/8/2003	1.44E+01	2.67E+00
4/3/2003	1.81E+01	2.90E+00
7/9/2003	9.60E+00	2.26E+00
10/6/2003	1.65E+01	2.80E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	1.63E+02	5.10E+00
4/23/2002	8.10E+02	6.70E+00
7/16/2002	1.09E+02	4.70E+00
10/8/2002	1.11E+02	4.71E+00
1/7/2003	1.14E+02	4.73E+00
4/2/2003	1.33E+02	4.89E+00
7/9/2003	1.82E+02	5.20E+00
10/7/2003	1.93E+02	5.26E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	3.66E+01	N/A	3.60E+00	NO
MW361	Downgradient	Yes	8.09E+01	N/A	4.39E+00	NO
MW364	Downgradient	Yes	6.79E+01	N/A	4.22E+00	NO
MW367	Downgradient	Yes	2.26E+01	N/A	3.12E+00	NO
MW370	Upgradient	Yes	1.96E+01	N/A	2.98E+00	NO
MW373	Upgradient	Yes	2.26E+02	N/A	5.42E+00	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Technetium-99 UNITS: pCi/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 7.655	**S=** 13.274	**CV(1)=** 1.734	**K factor**=** 2.523	**TL(1)=** 4.11E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.946	**S=** 0.939	**CV(2)=** 0.483	**K factor**=** 2.523	**TL(2)=** 3.83E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.08E+01	2.38E+00
4/23/2002	8.53E+00	2.14E+00
7/15/2002	5.09E+00	1.63E+00
10/8/2002	4.78E+00	1.56E+00
1/8/2003	-5.12E+00	#Func!
4/3/2003	5.11E+00	1.63E+00
7/9/2003	4.25E+00	1.45E+00
10/6/2003	6.54E+00	1.88E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	1.65E+01	2.80E+00
4/23/2002	3.49E+00	1.25E+00
7/16/2002	1.42E+00	3.51E-01
10/8/2002	-6.06E+00	#Func!
1/7/2003	-8.41E+00	#Func!
4/2/2003	2.63E+01	3.27E+00
7/9/2003	3.06E+00	1.12E+00
10/7/2003	4.62E+01	3.83E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.99E+01	N/A	3.40E+00	NO
MW361	Downgradient	Yes	5.96E+01	N/A	4.09E+00	YES
MW364	Downgradient	Yes	5.27E+01	N/A	3.96E+00	YES
MW367	Downgradient	No	1.16E+01	N/A	2.45E+00	N/A
MW370	Upgradient	No	1.34E+01	N/A	2.60E+00	N/A
MW373	Upgradient	No	4.92E+00	N/A	1.59E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to historical background data.

Wells with Exceedances

MW361
MW364

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Total Organic Carbon (TOC) UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.169	**S=** 12.072	**CV(1)=** 1.957	**K factor**=** 2.523	**TL(1)=** 3.66E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.069	**S=** 1.014	**CV(2)=** 0.948	**K factor**=** 2.523	**TL(2)=** 3.63E+00	**LL(2)=** N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.20E+00	1.82E-01
4/23/2002	4.30E+00	1.46E+00
7/15/2002	2.60E+00	9.56E-01
10/8/2002	2.30E+00	8.33E-01
1/8/2003	3.00E+00	1.10E+00
4/3/2003	1.20E+00	1.82E-01
7/9/2003	2.60E+00	9.56E-01
10/6/2003	1.70E+00	5.31E-01

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	1.10E+00	9.53E-02
4/23/2002	1.75E+01	2.86E+00
7/16/2002	4.90E+01	3.89E+00
10/8/2002	2.90E+00	1.06E+00
1/7/2003	3.90E+00	1.36E+00
4/2/2003	2.50E+00	9.16E-01
7/9/2003	1.70E+00	5.31E-01
10/7/2003	1.20E+00	1.82E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.71E+00	N/A	9.97E-01	NO
MW361	Downgradient	Yes	6.86E-01	N/A	-3.77E-01	NO
MW364	Downgradient	Yes	7.13E-01	N/A	-3.38E-01	NO
MW367	Downgradient	Yes	5.49E-01	N/A	-6.00E-01	NO
MW370	Upgradient	Yes	7.90E-01	N/A	-2.36E-01	NO
MW373	Upgradient	Yes	1.23E+00	N/A	2.07E-01	NO

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Total Organic Halides (TOX) UNITS: ug/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 79.819	**S=** 78.470	**CV(1)=** 0.983	**K factor**=** 2.523	**TL(1)=** 2.78E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.971	**S=** 0.950	**CV(2)=** 0.239	**K factor**=** 2.523	**TL(2)=** 6.37E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	5.00E+01	3.91E+00
4/23/2002	2.28E+02	5.43E+00
7/15/2002	8.80E+01	4.48E+00
10/8/2002	5.80E+01	4.06E+00
1/8/2003	7.24E+01	4.28E+00
4/3/2003	2.66E+01	3.28E+00
7/9/2003	1.64E+01	2.80E+00
10/6/2003	3.11E+01	3.44E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	5.00E+01	3.91E+00
4/23/2002	2.76E+02	5.62E+00
7/16/2002	1.77E+02	5.18E+00
10/8/2002	7.60E+01	4.33E+00
1/7/2003	4.59E+01	3.83E+00
4/2/2003	5.78E+01	4.06E+00
7/9/2003	1.00E+01	2.30E+00
10/7/2003	1.39E+01	2.63E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	3.75E+00	NO	1.32E+00	N/A
MW361	Downgradient	Yes	6.24E+00	NO	1.83E+00	N/A
MW364	Downgradient	Yes	5.00E+00	NO	1.61E+00	N/A
MW367	Downgradient	No	1.00E+01	N/A	2.30E+00	N/A
MW370	Upgradient	Yes	3.68E+00	NO	1.30E+00	N/A
MW373	Upgradient	Yes	1.09E+01	NO	2.39E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Historical Background Comparison

Zinc UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is evidence of an exceedance of the statistically-derived historical background concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 0.055	**S=** 0.037	**CV(1)=** 0.673	**K factor**=** 2.523	**TL(1)=** 1.47E-01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** -3.131	**S=** 0.691	**CV(2)=** -0.221	**K factor**=** 2.523	**TL(2)=** -1.39E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Historical Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	1.00E-01	-2.30E+00
4/23/2002	1.00E-01	-2.30E+00
7/15/2002	1.00E-01	-2.30E+00
10/8/2002	2.50E-02	-3.69E+00
1/8/2003	3.50E-02	-3.35E+00
4/3/2003	3.50E-02	-3.35E+00
7/9/2003	2.00E-02	-3.91E+00
10/6/2003	2.00E-02	-3.91E+00

Well Number: MW373

Date Collected	Result	LN(Result)
3/18/2002	1.00E-01	-2.30E+00
4/23/2002	1.00E-01	-2.30E+00
7/16/2002	1.00E-01	-2.30E+00
10/8/2002	2.50E-02	-3.69E+00
1/7/2003	3.50E-02	-3.35E+00
4/2/2003	3.50E-02	-3.35E+00
7/9/2003	2.34E-02	-3.76E+00
10/7/2003	2.00E-02	-3.91E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	1.00E-02	NO	-4.61E+00	N/A
MW361	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW364	Downgradient	Yes	1.93E-02	NO	-3.95E+00	N/A
MW367	Downgradient	Yes	1.12E-02	NO	-4.49E+00	N/A
MW370	Upgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW373	Upgradient	Yes	8.49E-03	NO	-4.77E+00	N/A

N/A - Results identified as Non-Detects during laboratory analysis or data validation and were not included in the statistical evaluation. Additionally for parameters that have MCLs, where the result for a well did not exceed the MCL value, that well was not included in the statistical evaluation.

Conclusion of Statistical Analysis on Historical Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from historical background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

ATTACHMENT D2

COMPARISON OF CURRENT DATA TO ONE-SIDED UPPER TOLERANCE INTERVAL TEST CALCULATED USING CURRENT BACKGROUND DATA

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C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Dissolved Oxygen UNITS: mg/L UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 3.003	**S=** 1.518	**CV(1)=** 0.506	**K factor**=** 2.523	**TL(1)=** 6.83E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 0.981	**S=** 0.508	**CV(2)=** 0.518	**K factor**=** 2.523	**TL(2)=** 2.26E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
4/10/2024	3.03E+00	1.11E+00
7/30/2024	4.00E+00	1.39E+00
10/10/2024	1.55E+00	4.38E-01
1/28/2025	5.23E+00	1.65E+00
4/10/2025	5.89E+00	1.77E+00
7/21/2025	5.67E+00	1.74E+00
10/14/2025	3.33E+00	1.20E+00
1/21/2026	2.27E+00	8.20E-01

Well Number: MW374

Date Collected	Result	LN(Result)
4/10/2024	1.33E+00	2.85E-01
7/30/2024	1.10E+00	9.53E-02
10/10/2024	2.50E+00	9.16E-01
1/28/2025	3.52E+00	1.26E+00
4/10/2025	2.82E+00	1.04E+00
7/21/2025	1.92E+00	6.52E-01
10/14/2025	2.07E+00	7.28E-01
1/22/2026	1.82E+00	5.99E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	4.90E+00	NO	1.59E+00	N/A
MW365	Downgradient	Yes	8.12E+00	YES	2.09E+00	N/A
MW371	Upgradient	Yes	5.17E+00	NO	1.64E+00	N/A

Conclusion of Statistical Analysis on Current Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to current background data.

Wells with Exceedances

MW365

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Oxidation-Reduction Potential UNITS: mV UCRS

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 428.375	**S=** 53.225	**CV(1)=** 0.124	**K factor**=** 2.523	**TL(1)=** 5.63E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.053	**S=** 0.124	**CV(2)=** 0.020	**K factor**=** 2.523	**TL(2)=** 6.37E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
4/10/2024	3.60E+02	5.89E+00
7/30/2024	4.47E+02	6.10E+00
10/10/2024	4.54E+02	6.12E+00
1/28/2025	5.15E+02	6.24E+00
4/10/2025	3.97E+02	5.98E+00
7/21/2025	3.56E+02	5.87E+00
10/14/2025	5.02E+02	6.22E+00
1/21/2026	4.79E+02	6.17E+00

Well Number: MW374

Date Collected	Result	LN(Result)
4/10/2024	3.69E+02	5.91E+00
7/30/2024	4.11E+02	6.02E+00
10/10/2024	4.10E+02	6.02E+00
1/28/2025	3.82E+02	5.95E+00
4/10/2025	3.77E+02	5.93E+00
7/21/2025	4.31E+02	6.07E+00
10/14/2025	4.96E+02	6.21E+00
1/22/2026	4.68E+02	6.15E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	5.24E+02	NO	6.26E+00	N/A
MW365	Downgradient	Yes	4.76E+02	NO	6.17E+00	N/A
MW371	Upgradient	Yes	4.28E+02	NO	6.06E+00	N/A
MW374	Upgradient	Yes	3.87E+02	NO	5.96E+00	N/A
MW375	Sidegradient	Yes	4.80E+02	NO	6.17E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Sulfate **UNITS: mg/L** **UCRS**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 16.675	**S=** 8.236	**CV(1)=** 0.494	**K factor**=** 2.523	**TL(1)=** 3.75E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.723	**S=** 0.426	**CV(2)=** 0.157	**K factor**=** 2.523	**TL(2)=** 3.80E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW371

Date Collected	Result	LN(Result)
4/10/2024	9.92E+00	2.29E+00
7/30/2024	1.04E+01	2.34E+00
10/10/2024	8.19E+00	2.10E+00
1/28/2025	1.08E+01	2.38E+00
4/10/2025	1.99E+01	2.99E+00
7/21/2025	4.28E+01	3.76E+00
10/14/2025	1.11E+01	2.41E+00
1/21/2026	8.29E+00	2.12E+00

Well Number: MW374

Date Collected	Result	LN(Result)
4/10/2024	1.76E+01	2.87E+00
7/30/2024	1.71E+01	2.84E+00
10/10/2024	1.82E+01	2.90E+00
1/28/2025	1.58E+01	2.76E+00
4/10/2025	1.79E+01	2.88E+00
7/21/2025	1.91E+01	2.95E+00
10/14/2025	1.98E+01	2.99E+00
1/22/2026	1.99E+01	2.99E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	3.13E+01	NO	3.44E+00	N/A
MW365	Downgradient	Yes	5.04E+01	YES	3.92E+00	N/A
MW374	Upgradient	Yes	2.18E+01	NO	3.08E+00	N/A
MW375	Sidegradient	Yes	2.16E+01	NO	3.07E+00	N/A

Conclusion of Statistical Analysis on Current Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to current background data.

Wells with Exceedances

MW365

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Calcium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 41.581	**S=** 25.575	**CV(1)=** 0.615	**K factor**=** 2.523	**TL(1)=** 1.06E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.504	**S=** 0.720	**CV(2)=** 0.206	**K factor**=** 2.523	**TL(2)=** 5.32E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	1.49E+01	2.70E+00
7/17/2024	1.51E+01	2.71E+00
10/10/2024	1.55E+01	2.74E+00
1/28/2025	1.62E+01	2.79E+00
4/10/2025	2.53E+01	3.23E+00
7/21/2025	1.58E+01	2.76E+00
10/14/2025	1.68E+01	2.82E+00
1/21/2026	1.61E+01	2.78E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	6.53E+01	4.18E+00
7/17/2024	6.59E+01	4.19E+00
10/10/2024	6.45E+01	4.17E+00
1/28/2025	6.69E+01	4.20E+00
4/10/2025	6.64E+01	4.20E+00
7/21/2025	6.74E+01	4.21E+00
10/14/2025	6.30E+01	4.14E+00
1/22/2026	7.02E+01	4.25E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	6.77E+01	NO	4.22E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Conductivity UNITS: umho/cm URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 560.125	**S=** 207.627	**CV(1)=** 0.371	**K factor**=** 2.523	**TL(1)=** 1.08E+03	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.259	**S=** 0.389	**CV(2)=** 0.062	**K factor**=** 2.523	**TL(2)=** 7.24E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	3.47E+02	5.85E+00
7/30/2024	3.36E+02	5.82E+00
10/10/2024	4.08E+02	6.01E+00
1/28/2025	3.43E+02	5.84E+00
4/10/2025	3.87E+02	5.96E+00
7/21/2025	3.53E+02	5.87E+00
10/14/2025	3.60E+02	5.89E+00
1/21/2026	3.50E+02	5.86E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	7.58E+02	6.63E+00
7/30/2024	7.49E+02	6.62E+00
10/10/2024	7.91E+02	6.67E+00
1/28/2025	7.58E+02	6.63E+00
4/10/2025	7.44E+02	6.61E+00
7/21/2025	7.20E+02	6.58E+00
10/14/2025	8.03E+02	6.69E+00
1/22/2026	7.55E+02	6.63E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	7.85E+02	NO	6.67E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Dissolved Solids UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 332.375	**S=** 140.442	**CV(1)=** 0.423	**K factor**=** 2.523	**TL(1)=** 6.87E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.714	**S=** 0.452	**CV(2)=** 0.079	**K factor**=** 2.523	**TL(2)=** 6.85E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	1.86E+02	5.23E+00
7/30/2024	2.13E+02	5.36E+00
10/10/2024	1.78E+02	5.18E+00
1/28/2025	2.05E+02	5.32E+00
4/10/2025	2.35E+02	5.46E+00
7/21/2025	2.02E+02	5.31E+00
10/14/2025	1.77E+02	5.18E+00
1/21/2026	1.86E+02	5.23E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	4.59E+02	6.13E+00
7/30/2024	4.96E+02	6.21E+00
10/10/2024	4.42E+02	6.09E+00
1/28/2025	4.46E+02	6.10E+00
4/10/2025	4.74E+02	6.16E+00
7/21/2025	4.92E+02	6.20E+00
10/14/2025	4.49E+02	6.11E+00
1/22/2026	4.78E+02	6.17E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	4.63E+02	NO	6.14E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Magnesium UNITS: mg/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 15.091	**S=** 8.354	**CV(1)=** 0.554	**K factor**=** 2.523	**TL(1)=** 3.62E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.540	**S=** 0.631	**CV(2)=** 0.248	**K factor**=** 2.523	**TL(2)=** 4.13E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	6.41E+00	1.86E+00
7/17/2024	6.22E+00	1.83E+00
10/10/2024	6.34E+00	1.85E+00
1/28/2025	6.91E+00	1.93E+00
4/10/2025	1.08E+01	2.38E+00
7/21/2025	6.67E+00	1.90E+00
10/14/2025	6.46E+00	1.87E+00
1/21/2026	6.84E+00	1.92E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	2.25E+01	3.11E+00
7/17/2024	2.26E+01	3.12E+00
10/10/2024	2.24E+01	3.11E+00
1/28/2025	2.43E+01	3.19E+00
4/10/2025	2.42E+01	3.19E+00
7/21/2025	2.34E+01	3.15E+00
10/14/2025	2.25E+01	3.11E+00
1/22/2026	2.29E+01	3.13E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	2.39E+01	NO	3.17E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Oxidation-Reduction Potential UNITS: mV URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 436.831	**S=** 54.248	**CV(1)=** 0.124	**K factor**=** 2.523	**TL(1)=** 5.74E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.072	**S=** 0.130	**CV(2)=** 0.021	**K factor**=** 2.523	**TL(2)=** 6.40E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	3.12E+02	5.74E+00
7/30/2024	4.62E+02	6.14E+00
10/10/2024	4.69E+02	6.15E+00
1/28/2025	4.63E+02	6.14E+00
4/10/2025	4.25E+02	6.05E+00
7/21/2025	4.21E+02	6.04E+00
10/14/2025	4.92E+02	6.20E+00
1/21/2026	3.69E+02	5.91E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	3.81E+02	5.94E+00
7/30/2024	4.52E+02	6.11E+00
10/10/2024	4.56E+02	6.12E+00
1/28/2025	4.10E+02	6.02E+00
4/10/2025	4.20E+02	6.04E+00
7/21/2025	4.21E+02	6.04E+00
10/14/2025	5.20E+02	6.25E+00
1/22/2026	5.16E+02	6.25E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	5.29E+02	NO	6.27E+00	N/A
MW360	Downgradient	Yes	5.02E+02	NO	6.22E+00	N/A
MW363	Downgradient	Yes	4.56E+02	NO	6.12E+00	N/A
MW366	Downgradient	Yes	4.94E+02	NO	6.20E+00	N/A
MW369	Upgradient	Yes	4.89E+02	NO	6.19E+00	N/A
MW372	Upgradient	Yes	4.91E+02	NO	6.20E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Sulfate **UNITS: mg/L** **URGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 80.268	**S=** 73.318	**CV(1)=** 0.913	**K factor**=** 2.523	**TL(1)=** 2.65E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.615	**S=** 1.460	**CV(2)=** 0.404	**K factor**=** 2.523	**TL(2)=** 7.30E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	7.81E+00	2.06E+00
7/30/2024	7.92E+00	2.07E+00
10/10/2024	8.91E+00	2.19E+00
1/28/2025	8.48E+00	2.14E+00
4/10/2025	1.80E+01	2.89E+00
7/21/2025	8.76E+00	2.17E+00
10/14/2025	8.69E+00	2.16E+00
1/21/2026	7.72E+00	2.04E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	1.40E+02	4.94E+00
7/30/2024	1.64E+02	5.10E+00
10/10/2024	1.46E+02	4.98E+00
1/28/2025	1.49E+02	5.00E+00
4/10/2025	1.61E+02	5.08E+00
7/21/2025	1.56E+02	5.05E+00
10/14/2025	1.44E+02	4.97E+00
1/22/2026	1.48E+02	5.00E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	1.51E+02	NO	5.02E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Technetium-99 UNITS: pCi/L URGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 52.247	**S=** 25.858	**CV(1)=** 0.495	**K factor**=** 2.523	**TL(1)=** 1.17E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.743	**S=** 0.808	**CV(2)=** 0.216	**K factor**=** 2.523	**TL(2)=** 5.78E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369

Date Collected	Result	LN(Result)
4/10/2024	7.09E+01	4.26E+00
7/17/2024	4.27E+01	3.75E+00
10/10/2024	8.38E+01	4.43E+00
1/28/2025	5.27E+01	3.96E+00
4/10/2025	2.96E+01	3.39E+00
7/21/2025	5.22E+01	3.96E+00
10/14/2025	7.26E+01	4.28E+00
1/21/2026	5.30E+01	3.97E+00

Well Number: MW372

Date Collected	Result	LN(Result)
4/11/2024	6.15E+01	4.12E+00
7/17/2024	1.75E+01	2.86E+00
10/10/2024	9.20E+01	4.52E+00
1/28/2025	7.82E+00	2.06E+00
4/10/2025	6.43E+00	1.86E+00
7/21/2025	5.15E+01	3.94E+00
10/14/2025	6.71E+01	4.21E+00
1/22/2026	7.46E+01	4.31E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW366	Downgradient	Yes	7.50E+01	NO	4.32E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Calcium UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 57.006	**S=** 29.696	**CV(1)=** 0.521	**K factor**=** 2.523	**TL(1)=** 1.32E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 3.897	**S=** 0.572	**CV(2)=** 0.147	**K factor**=** 2.523	**TL(2)=** 5.34E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
4/10/2024	2.84E+01	3.35E+00
7/17/2024	2.90E+01	3.37E+00
10/10/2024	2.85E+01	3.35E+00
1/28/2025	2.92E+01	3.37E+00
4/10/2025	2.95E+01	3.38E+00
7/21/2025	2.86E+01	3.35E+00
10/14/2025	2.70E+01	3.30E+00
1/21/2026	2.67E+01	3.28E+00

Well Number: MW373

Date Collected	Result	LN(Result)
4/10/2024	8.35E+01	4.42E+00
7/17/2024	8.59E+01	4.45E+00
10/10/2024	8.13E+01	4.40E+00
1/28/2025	9.10E+01	4.51E+00
4/10/2025	8.69E+01	4.46E+00
7/21/2025	8.77E+01	4.47E+00
10/14/2025	8.04E+01	4.39E+00
1/22/2026	8.85E+01	4.48E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Upgradient	Yes	8.76E+01	NO	4.47E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Dissolved Oxygen UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 3.322	**S=** 1.631	**CV(1)=** 0.491	**K factor**=** 2.523	**TL(1)=** 7.44E+00	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 1.071	**S=** 0.548	**CV(2)=** 0.512	**K factor**=** 2.523	**TL(2)=** 2.45E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
4/10/2024	3.09E+00	1.13E+00
7/30/2024	4.22E+00	1.44E+00
10/10/2024	4.30E+00	1.46E+00
1/28/2025	6.23E+00	1.83E+00
4/10/2025	4.54E+00	1.51E+00
7/21/2025	4.84E+00	1.58E+00
10/14/2025	5.24E+00	1.66E+00
1/21/2026	5.29E+00	1.67E+00

Well Number: MW373

Date Collected	Result	LN(Result)
4/10/2024	2.61E+00	9.59E-01
7/30/2024	1.14E+00	1.31E-01
10/10/2024	1.52E+00	4.19E-01
1/28/2025	2.08E+00	7.32E-01
4/10/2025	2.90E+00	1.06E+00
7/21/2025	1.24E+00	2.15E-01
10/14/2025	1.90E+00	6.42E-01
1/22/2026	2.01E+00	6.98E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW361	Downgradient	Yes	4.51E+00	NO	1.51E+00	N/A
MW370	Upgradient	Yes	4.90E+00	NO	1.59E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Dissolved Solids UNITS: mg/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 412.313	**S=** 201.375	**CV(1)=** 0.488	**K factor**=** 2.523	**TL(1)=** 9.20E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 5.897	**S=** 0.527	**CV(2)=** 0.089	**K factor**=** 2.523	**TL(2)=** 7.23E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
4/10/2024	2.32E+02	5.45E+00
7/30/2024	2.47E+02	5.51E+00
10/10/2024	2.21E+02	5.40E+00
1/28/2025	2.12E+02	5.36E+00
4/10/2025	2.26E+02	5.42E+00
7/21/2025	2.25E+02	5.42E+00
10/14/2025	1.85E+02	5.22E+00
1/21/2026	2.15E+02	5.37E+00

Well Number: MW373

Date Collected	Result	LN(Result)
4/10/2024	5.50E+02	6.31E+00
7/17/2024	5.85E+02	6.37E+00
10/10/2024	5.52E+02	6.31E+00
1/28/2025	5.62E+02	6.33E+00
4/10/2025	6.35E+02	6.45E+00
7/21/2025	6.66E+02	6.50E+00
10/14/2025	6.18E+02	6.43E+00
1/22/2026	6.66E+02	6.50E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Upgradient	Yes	6.36E+02	NO	6.46E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Magnesium **UNITS: mg/L** **LRGA**

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 21.500	**S=** 9.829	**CV(1)=** 0.457	**K factor**=** 2.523	**TL(1)=** 4.63E+01	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 2.960	**S=** 0.489	**CV(2)=** 0.165	**K factor**=** 2.523	**TL(2)=** 4.19E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
4/10/2024	1.23E+01	2.51E+00
7/17/2024	1.21E+01	2.49E+00
10/10/2024	1.21E+01	2.49E+00
1/28/2025	1.29E+01	2.56E+00
4/10/2025	1.24E+01	2.52E+00
7/21/2025	1.25E+01	2.53E+00
10/14/2025	1.10E+01	2.40E+00
1/21/2026	1.13E+01	2.42E+00

Well Number: MW373

Date Collected	Result	LN(Result)
4/10/2024	2.93E+01	3.38E+00
7/17/2024	2.91E+01	3.37E+00
10/10/2024	2.91E+01	3.37E+00
1/28/2025	3.39E+01	3.52E+00
4/10/2025	3.16E+01	3.45E+00
7/21/2025	3.30E+01	3.50E+00
10/14/2025	2.97E+01	3.39E+00
1/22/2026	3.17E+01	3.46E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Upgradient	Yes	3.26E+01	NO	3.48E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Oxidation-Reduction Potential UNITS: mV LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 452.356	**S=** 58.572	**CV(1)=** 0.129	**K factor**=** 2.523	**TL(1)=** 6.00E+02	**LL(1)=** N/A
Statistics-Transformed Background Data	**X=** 6.107	**S=** 0.127	**CV(2)=** 0.021	**K factor**=** 2.523	**TL(2)=** 6.43E+00	**LL(2)=** N/A

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
4/10/2024	3.45E+02	5.84E+00
7/30/2024	4.64E+02	6.14E+00
10/10/2024	4.96E+02	6.21E+00
1/28/2025	6.02E+02	6.40E+00
4/10/2025	4.04E+02	6.00E+00
7/21/2025	4.20E+02	6.04E+00
10/14/2025	5.05E+02	6.22E+00
1/21/2026	4.57E+02	6.13E+00

Well Number: MW373

Date Collected	Result	LN(Result)
4/10/2024	3.83E+02	5.95E+00
7/30/2024	4.37E+02	6.08E+00
10/10/2024	4.78E+02	6.17E+00
1/28/2025	4.28E+02	6.06E+00
4/10/2025	4.14E+02	6.03E+00
7/21/2025	4.45E+02	6.10E+00
10/14/2025	4.81E+02	6.18E+00
1/22/2026	4.78E+02	6.17E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	1.74E+02	NO	5.16E+00	N/A
MW361	Downgradient	Yes	5.42E+02	NO	6.29E+00	N/A
MW364	Downgradient	Yes	4.72E+02	NO	6.16E+00	N/A
MW367	Downgradient	Yes	3.03E+02	NO	5.71E+00	N/A
MW370	Upgradient	Yes	4.57E+02	NO	6.12E+00	N/A
MW373	Upgradient	Yes	3.91E+02	NO	5.97E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

pH UNITS: Std Unit LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 6.060	**S=** 0.193	**CV(1)=** 0.032	**K factor**=** 2.904	**TL(1)=** 6.62E+00	**LL(1)=** 5.50E+00
Statistics-Transformed Background Data	**X=** 1.801	**S=** 0.031	**CV(2)=** 0.017	**K factor**=** 2.904	**TL(2)=** 1.89E+00	**LL(2)=** 1.71E+00

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370

Date Collected	Result	LN(Result)
4/10/2024	5.93E+00	1.78E+00
7/30/2024	6.06E+00	1.80E+00
10/10/2024	5.98E+00	1.79E+00
1/28/2025	6.28E+00	1.84E+00
4/10/2025	6.01E+00	1.79E+00
7/21/2025	6.02E+00	1.80E+00
10/14/2025	6.00E+00	1.79E+00
1/21/2026	5.91E+00	1.78E+00

Well Number: MW373

Date Collected	Result	LN(Result)
4/10/2024	6.02E+00	1.80E+00
7/30/2024	6.04E+00	1.80E+00
10/10/2024	5.96E+00	1.79E+00
1/28/2025	6.14E+00	1.81E+00
4/10/2025	6.01E+00	1.79E+00
7/21/2025	6.69E+00	1.90E+00
10/14/2025	6.04E+00	1.80E+00
1/22/2026	5.87E+00	1.77E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)? Result <LL(1)?	LN(Result)	LN(Result) >TL(2)? LN(Result) <LL(2)?
MW367	Downgradient	Yes	5.78E+00	NO	1.75E+00	N/A

Conclusion of Statistical Analysis on Current Data

None of the test wells exceeded the Upper Tolerance Limit, which is evidence that concentrations in these wells are not different from current background concentrations to a statistically-significant level.

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

C-746-U Second Quarter 2026 Statistical Analysis Current Background Comparison

Technetium-99 UNITS: pCi/L LRGA

The CV is calculated to determine if background data are normally distributed. If so, the current test well results are compared to the TL(1). If not, a transformation is performed on the background and test well results, then each transformed test well result is compared to the transformed TL(2). If the test well result exceeds the TL, that is statistically significant evidence of elevated concentration in that well. For pH only, the current test well results are compared to the TL and LL. If the test well result for pH exceeds the TL or is less than the LL, that is statistically significant evidence of elevated or lowered concentration in that well.

Statistics-Background Data	**X=** 5.711	**S=** 8.704	**CV(1)=** 1.524	**K factor**=** 2.523	**TL(1)=** 2.77E+01	**LL(1)=**N/A
Statistics-Transformed Background Data	**X=** 1.715	**S=** 1.111	**CV(2)=** 0.648	**K factor**=** 2.523	**TL(2)=** 3.13E+00	**LL(2)=**N/A

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

#Because the natural log was not possible for all background values, the TL(2) was considered equal to the maximum background value.

Current Background Data from Upgradient Wells with Transformed Result

Well Number:	MW370	
Date Collected	Result	LN(Result)
4/10/2024	2.29E+01	3.13E+00
7/17/2024	-4.19E+00	#Func!
10/10/2024	2.06E+01	3.03E+00
1/28/2025	1.10E+01	2.40E+00
4/10/2025	3.98E+00	1.38E+00
7/21/2025	8.12E+00	2.09E+00
10/14/2025	9.90E+00	2.29E+00
1/21/2026	4.54E+00	1.51E+00

Well Number:	MW373	
Date Collected	Result	LN(Result)
4/10/2024	2.12E+00	7.51E-01
7/17/2024	-8.77E+00	#Func!
10/10/2024	1.28E+01	2.55E+00
1/28/2025	-6.18E+00	#Func!
4/10/2025	5.28E+00	1.66E+00
7/21/2025	7.58E+00	2.03E+00
10/14/2025	4.84E-01	-7.26E-01
1/22/2026	1.21E+00	1.91E-01

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW361	Downgradient	Yes	5.96E+01	N/A	4.09E+00	YES
MW364	Downgradient	Yes	5.27E+01	N/A	3.96E+00	YES

Conclusion of Statistical Analysis on Current Data

The test well(s) listed exceeded the Upper Tolerance Limit, which is evidence of elevated concentration with respect to current background data.

Wells with Exceedances

MW361
MW364

NOTE: For UCRS wells, background ("upgradient") wells are those located in the same direction as RGA wells located upgradient from the landfill.

CV Coefficient-of-Variation, CV = S/X If CV is less than or equal to 1 assume normal distribution.

S Standard Deviation, S = [Sum ([(background result-X)^2]/[count of background results -1])]^0.5

TL Upper Tolerance Limit, TL = X + (K * S), LL Lower Tolerance Limit, LL = X - (K * S)

X Mean, X = (sum of background results)/(count of background results)

** *Read from Table 5, Appendix B of Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,Interim Guidance, EPA, 1989, based on total number of background results - The K-factor for pH to account for a two-sided tolerance interval instead of a one-sided tolerance limit. The K-factor for pH was computed using a formula from NIST/SEMATECH e-Handbook of Statistical Methods, http://www.itl.nist.gov/div898/handbook/,2009.*

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ATTACHMENT D3

STATISTICIAN QUALIFICATION STATEMENT

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FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC

Four Rivers Nuclear Partnership, LLC
5511 Hobbs Road
Kevil, KY 42053
www.fourriversnuclearpartnership.com

July 22, 2026

Ms. Katrina Hall
Four Rivers Nuclear Partnership, LLC
5511 Hobbs Road
Kevil, KY 42053

Dear Ms. Hall:

As an Environmental Scientist, with a bachelor's degree in Earth Sciences/Geology, I have over 30 years of experience in reviewing and assessing laboratory analytical results associated with environmental sampling and investigation activities. For the generation of these statistical analyses, my work was reviewed by a qualified independent technical reviewer with Four Rivers Nuclear Partnership, LLC.

For this project, the statistical analyses conducted on the second quarter 2026 monitoring well data collected from the C-746-S Residential Landfill, C-746-T Inert Landfill, and C-746-U Contained Landfill were performed in accordance with guidance provided in the U.S. Environmental Protection Agency guidance document, *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance* (1989).

Sincerely,

Bryan Smith

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APPENDIX E

GROUNDWATER FLOW RATE AND DIRECTION

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GROUNDWATER FLOW RATE AND DIRECTION

Determination of groundwater flow rate and direction of flow in the uppermost aquifer whenever the monitoring wells (MWs) are sampled is a requirement of 401 *KAR* 48.300, Section 11. The uppermost aquifer below the C-746-U Landfill is the Regional Gravel Aquifer (RGA). Water level measurements currently are recorded in several wells at the landfill on a quarterly basis. These measurements were used to plot the potentiometric surface of the RGA for the second quarter 2026 and determine groundwater flow rate and direction.

Water levels during this reporting period were measured on April 21, 2026. As shown on Figure E.1, all Upper Continental Recharge System (UCRS) wells had sufficient water to permit water level measurement during this reporting period.

The UCRS has a strong vertical hydraulic gradient; therefore, the available UCRS wells screened over different elevations are not sufficient for mapping the potentiometric surface. As shown in Table E.1, the RGA data were converted to elevations to plot the potentiometric surfaces within the Upper Regional Gravel Aquifer (URGA) and Lower Regional Gravel Aquifer (LRGA). (At the request of the Commonwealth of Kentucky, the RGA is differentiated into two zones, the URGA and LRGA.) Based on the potentiometric maps (Figures E.2 and E.3), the hydraulic gradients for the URGA and LRGA at the C-746-U Landfill, as measured along the defined groundwater flow directions, were 8.39×10^{-4} ft/ft for the URGA and 8.12×10^{-4} ft/ft for the LRGA. Additional water level measurements in April (Figure E.4) document the vicinity groundwater hydraulic gradient for the RGA to be 4.22×10^{-4} ft/ft, northward.[1] The hydraulic gradients are shown in Table E.2.

The average linear groundwater flow velocity (v) is determined by multiplying the hydraulic gradient (i) by the hydraulic conductivity (K) [resulting in the specific discharge (q)] and dividing by the effective porosity (n_e). The RGA hydraulic conductivity values used are reported in the Administrative Application for the New Solid Waste Landfill Permit No. SW073-00045 and range from 4.25×10^2 to 7.25×10^2 ft/day (1.50×10^{-1} to 2.56×10^{-1} cm/s). RGA (both URGA and LRGA) effective porosity is assumed to be 25%. Flow velocities were calculated for the URGA and LRGA using the low and high values for hydraulic conductivity, as shown in Table E.3.

Groundwater flow beneath the C-746-U Landfill typically trends northeastward toward the Ohio River. As demonstrated on the potentiometric maps for April 2026, the groundwater flow direction in the immediate area of the landfill was northeastward.

[1] Additional water level measurements in wells at the C-746-S&T Landfills and in wells of the surrounding vicinity (MW98, MW100, MW125, MW139, MW165A, MW173, MW193, MW197, and MW200) (see Table E.4) were used to contour the RGA potentiometric surface.

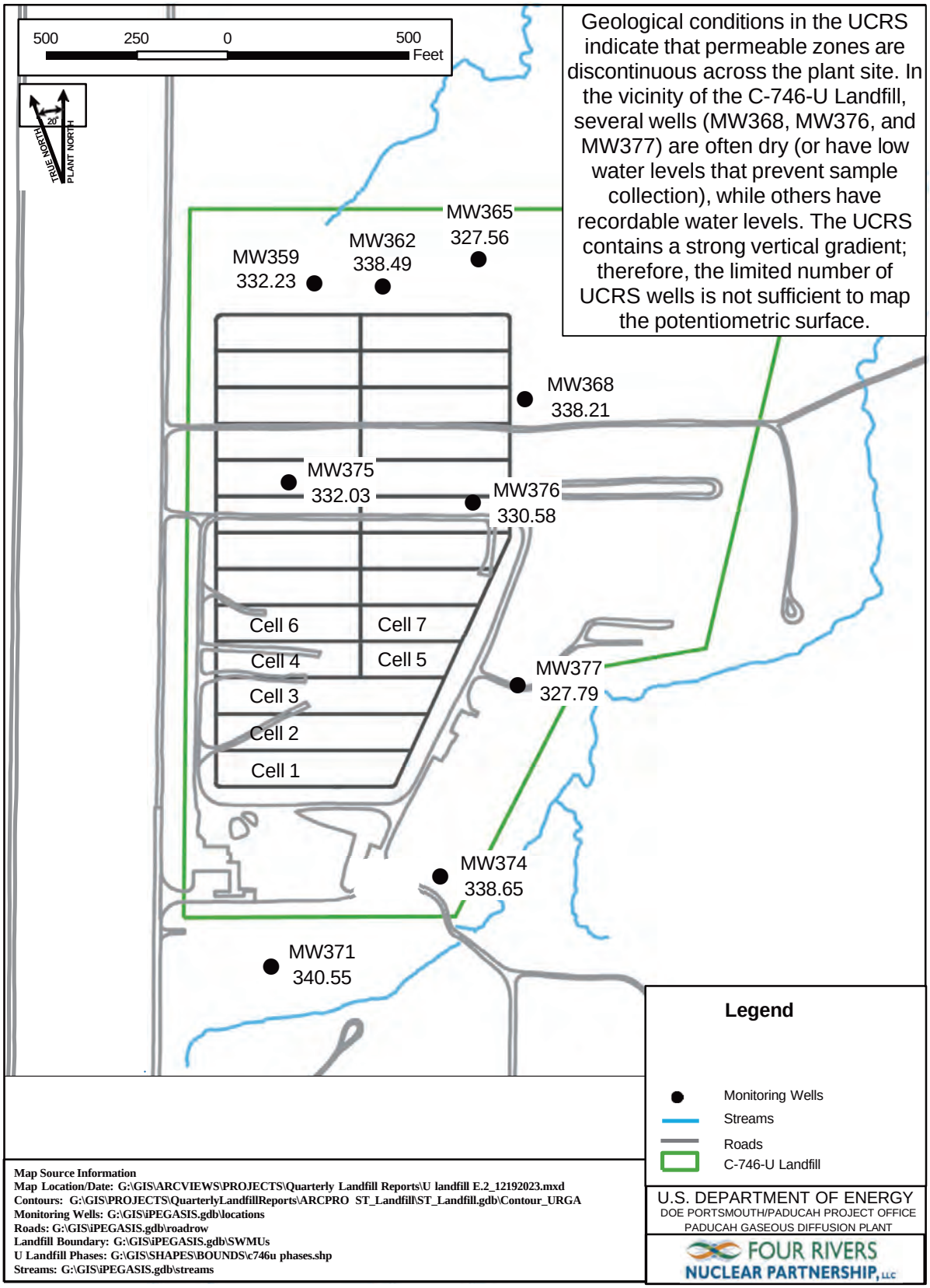

Figure E.1. Potentiometric Surface of the Upper Continental Recharge System at the C-746-U Landfill, April 21, 2026

Table E.1. C-746-U Landfill Second Quarter 2026 (April) Water Levels

C-746-U Landfill (April 21, 2026) Water Levels										
							Raw Data		*Corrected Data	
Date	Time	Well	Aquifer	Datum Elev (ft amsl)	BP (in Hg)	Delta BP (ft H20)	DTW (ft)	Elev (ft amsl)	DTW (ft)	Elev (ft amsl)
4/21/2026	12:51	MW357	URGA	368.77	30.20	-0.02	46.02	322.75	46.00	322.77
4/21/2026	12:52	MW358	LRGA	368.92	30.20	-0.02	46.18	322.74	46.16	322.76
4/21/2026	12:53	MW359	UCRS	368.91	30.20	-0.02	36.70	332.21	36.68	332.23
4/21/2026	12:47	MW360	URGA	362.07	30.20	-0.02	39.34	322.73	39.32	322.75
4/21/2026	12:48	MW361	LRGA	361.32	30.20	-0.02	38.58	322.74	38.56	322.76
4/21/2026	12:49	MW362	UCRS	361.85	30.20	-0.02	23.38	338.47	23.36	338.49
4/21/2026	12:56	MW363	URGA	368.56	30.18	0.00	45.92	322.64	45.92	322.64
4/21/2026	12:57	MW364	LRGA	368.17	30.18	0.00	45.80	322.37	45.80	322.37
4/21/2026	12:58	MW365	UCRS	368.14	30.18	0.00	40.58	327.56	40.58	327.56
4/21/2026	13:00	MW366	URGA	368.95	30.18	0.00	46.20	322.75	46.20	322.75
4/21/2026	13:01	MW367	LRGA	369.37	30.18	0.00	47.63	321.74	47.63	321.74
4/21/2026	13:02	MW368	UCRS	368.98	30.18	0.00	30.77	338.21	30.77	338.21
4/21/2026	13:21	MW369	URGA	364.23	30.18	0.00	40.39	323.84	40.39	323.84
4/21/2026	13:22	MW370	LRGA	365.12	30.18	0.00	41.28	323.84	41.28	323.84
4/21/2026	13:23	MW371	UCRS	364.64	30.18	0.00	24.09	340.55	24.09	340.55
4/21/2026	13:18	MW372	URGA	359.42	30.18	0.00	35.60	323.82	35.60	323.82
4/21/2026	13:19	MW373	LRGA	359.73	30.18	0.00	35.88	323.85	35.88	323.85
4/21/2026	13:20	MW374	UCRS	359.44	30.18	0.00	20.79	338.65	20.79	338.65
4/21/2026	13:11	MW375	UCRS	370.36	30.18	0.00	38.33	332.03	38.33	332.03
4/21/2026	13:13	MW376	UCRS	370.39	30.18	0.00	39.81	330.58	39.81	330.58
4/21/2026	13:15	MW377	UCRS	365.74	30.18	0.00	37.95	327.79	37.95	327.79
Reference Barometric Pressure					**30.18**					

Elev = elevation
amsl = above mean sea level
BP = barometric pressure
DTW = depth to water in feet below datum
URGA = Upper Regional Gravel Aquifer
LRGA = Lower Regional Gravel Aquifer
UCRS = Upper Continental Recharge System
*Assumes a barometric efficiency of 1.0

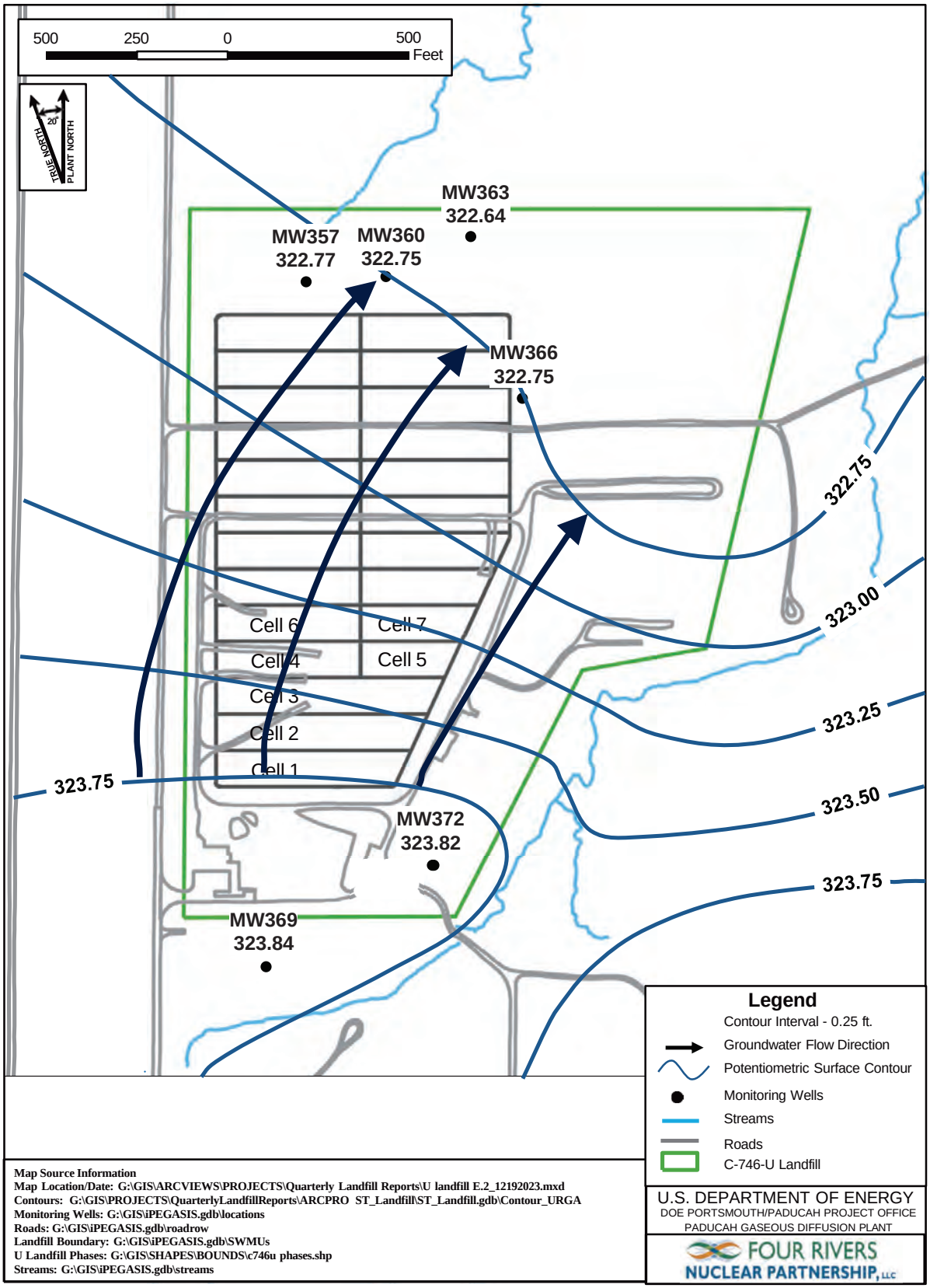

Figure E.2. Potentiometric Surface of the Upper Regional Gravel Aquifer at the C-746-U Landfill, April 21, 2026

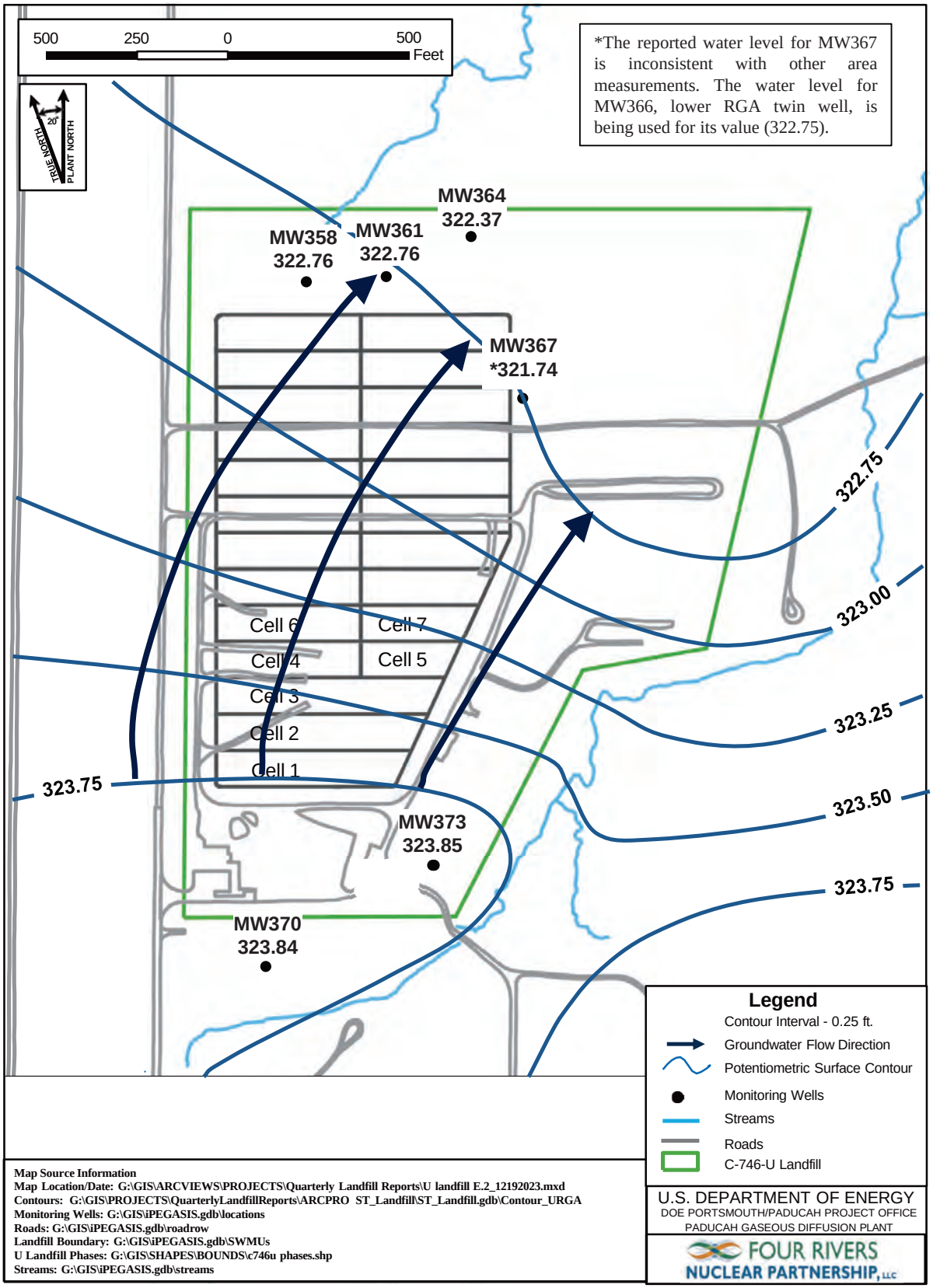

Figure E.3. Potentiometric Surface of the Lower Regional Gravel Aquifer at the C-746-U Landfill, April 21, 2026

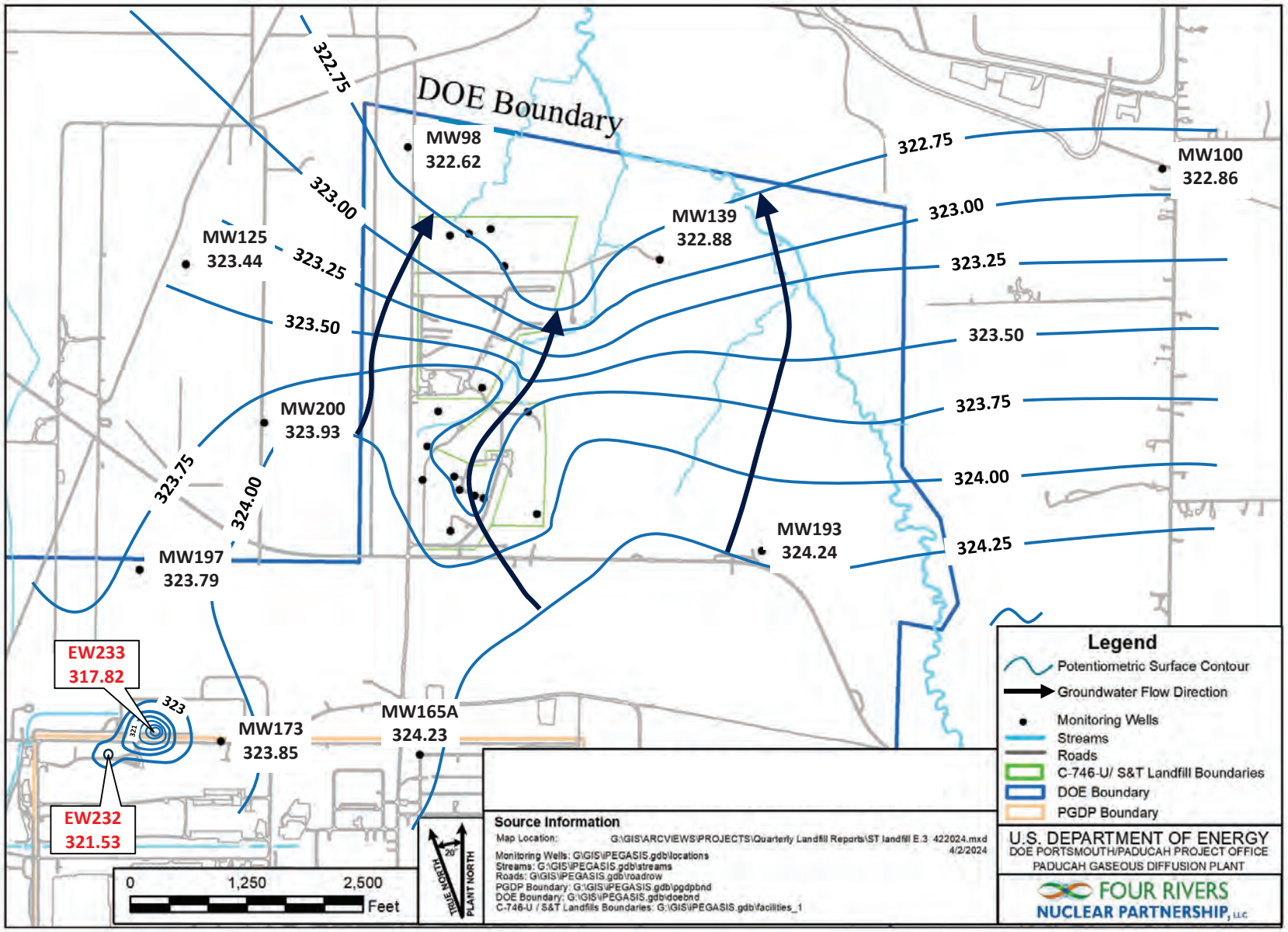

Figure E.4. Vicinity Potentiometric Surface of the Regional Gravel Aquifer, April 21, 2026

Table E.2. C-746-U Landfill Hydraulic Gradients

	ft/ft
Beneath Landfill—Upper RGA	8.39×10^{-4}
Beneath Landfill—Lower RGA	8.12×10^{-4}
Vicinity	4.22×10^{-4}

Table E.3. C-746-U Landfill Groundwater Flow Rate

Hydraulic Conductivity (K)		Specific Discharge (q)		Average Linear Velocity (v)	
ft/day	cm/s	ft/day	cm/s	ft/day	cm/s
Upper RGA					
7.25×10^{2}	2.56×10^{-1}	6.08×10^{-1}	2.15×10^{-4}	2.43	8.59×10^{-4}
4.25×10^{2}	1.50×10^{-1}	3.56×10^{-1}	1.26×10^{-4}	1.43	5.03×10^{-4}
Lower RGA					
7.25×10^{2}	2.56×10^{-1}	5.88×10^{-1}	2.08×10^{-4}	2.35	8.31×10^{-4}
4.25×10^{2}	1.50×10^{-1}	3.45×10^{-1}	1.22×10^{-4}	1.38	4.87×10^{-4}
Vicinity					
7.25×10^{2}	2.56×10^{-1}	3.06×10^{-1}	1.08×10^{-4}	1.23	4.33×10^{-4}
4.25×10^{2}	1.50×10^{-1}	1.80×10^{-1}	6.34×10^{-5}	7.18×10^{-1}	2.53×10^{-4}

Table E.4. Vicinity Second Quarter 2026 (April) Water Levels

Regional (April 21, 2026) Water Levels										
							Raw Data		***Corrected Data**	
Date	**Time**	**Well**	**Aquifer**	**Datum Elev (ft amsl)**	**BP (in Hg)**	**Delta BP (ft H20)**	**DTW (ft)**	**Elev (ft amsl)**	**DTW (ft)**	**Elev (ft amsl)**
4/21/2026	12:44	MW98	RGA	370.55	30.20	-0.02	47.95	322.60	47.93	322.62
4/21/2026	9:22	MW100	RGA	373.39	30.22	-0.05	50.58	322.81	50.53	322.86
4/21/2026	9:50	MW125	RGA	375.57	30.22	-0.05	52.18	323.39	52.13	323.44
4/21/2026	13:05	MW139	RGA	363.75	30.18	0.00	40.87	322.88	40.87	322.88
4/21/2026	9:36	MW165A	RGA	380.94	30.22	-0.05	56.76	324.18	56.71	324.23
4/21/2026	8:37	MW173	RGA	373.63	30.22	-0.05	49.83	323.80	49.78	323.85
4/21/2026	9:28	MW193	RGA	368.30	30.22	-0.05	44.11	324.19	44.06	324.24
4/21/2026	9:44	MW197	RGA	368.39	30.22	-0.05	44.65	323.74	44.60	323.79
4/21/2026	9:57	MW200	RGA	378.70	30.22	-0.05	54.82	323.88	54.77	323.93
Reference Barometric Pressure					**30.18**					

Elev = elevation
amsl = above mean sea level
BP = barometric pressure
DTW = depth to water in feet below datum
URGA = Upper Regional Gravel Aquifer
LRGA = Lower Regional Gravel Aquifer
*Assumes a barometric efficiency of 1.0

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APPENDIX F

NOTIFICATIONS

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NOTIFICATIONS

In accordance with 401 *KAR* 48:300 § 7, *Sampling and Analysis*, the notification for parameters that exceed (or did not exceed) the maximum contaminant level (MCL) has been submitted to the Kentucky Division of Waste Management. The parameters submitted are listed on page F-4. The notification for parameters that do not have MCLs, but had statistically significant increased concentrations relative to historical background concentrations, is provided below.

Statistical Analysis of Parameters Notification

The statistical analyses conducted on the second quarter 2026 groundwater data collected from the C-746-U Landfill monitoring wells were performed in accordance with *Groundwater Monitoring Plan for the Solid Waste Permitted Landfills (C-746-S Residential Landfill, C-746-T Inert Landfill, and C-746-U Contained Landfill) at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky* (LATA Kentucky 2014).

The following are the permit required parameters in 40 *CFR* § 302.4, Appendix A, which had statistically significant, increased concentrations relative to historical background concentrations.

	Parameter	Monitoring Well
Upper Continental Recharge System	None	
Upper Regional Gravel Aquifer	Technetium-99	MW366
Lower Regional Gravel Aquifer	Technetium-99	MW361, MW364

NOTE: Although technetium-99 is not cited in 40 *CFR* § 302.4, Appendix A, *Sequential CAS Registry Number List of CERCLA Hazardous Substances*, this radionuclide is being reported along with the parameters of this regulation.

Four Rivers Nuclear Partnership, LLC
PROJECT ENVIRONMENTAL MEASUREMENTS SYSTEM
C-746-U LANDFILL
SOLID WASTE PERMIT NUMBER SW07300014, SW07300015, SW07300045
MAXIMUM CONTAMINANT LEVEL (MCL) EXCEEDANCE REPORT
Quarterly Groundwater Sampling

AKGWA	Station	Analysis	Method	Results	Units	MCL

No exceedances reported.

NOTE 1: MCLs are defined in 401 KAR 47:030.

NOTE 2: MW369, MW370, MW372, and MW373 are down-gradient wells for the C-746-S and C-746-T Landfills and upgradient for the C-746-U Landfill. These wells are sampled with the C-746-U Landfill monitoring well network. These wells are reported on the exceedance reports for C-746-S, C-746-T, and C-746-U.

APPENDIX G

CHART OF MAXIMUM CONTAMINANT LEVEL AND UPPER TOLERANCE LIMIT EXCEEDANCES

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Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill

Groundwater Flow System	UCRS								URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
ACETONE																					
Quarter 3, 2002										✱	✱	✱									
Quarter 4, 2002										✱	✱	✱									
Quarter 1, 2003											✱	✱									
Quarter 2, 2003											✱	✱									
Quarter 3, 2003	✱						✱			✱	✱	✱			✱			✱			
Quarter 4, 2003						✱	✱				✱			✱							
Quarter 3, 2004						✱										✱					
Quarter 3, 2005						✱															
Quarter 4, 2005						✱															
ALPHA ACTIVITY																					
Quarter 1, 2004																					■
Quarter 2, 2004						■															
Quarter 3, 2009						■															
ALUMINUM																					
Quarter 3, 2003											✱										
BETA ACTIVITY																					
Quarter 1, 2004															■						
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Quarter 4, 2008										■					■				■		
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Quarter 4, 2020																				■	
Quarter 1, 2026										■					■						
BROMIDE																					
Quarter 2, 2004													✱								

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
CALCIUM																					
Quarter 3, 2003										*											
Quarter 2, 2005																					*
Quarter 3, 2006															*						
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CARBON DISULFIDE																					
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Quarter 1, 2011															*						
CHEMICAL OXYGEN DEMAND																					
Quarter 3, 2002										*	*	*	*	*	*						
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CHLORIDE																					
Quarter 1, 2006																				*	
Quarter 2, 2014															*						
COBALT																					
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Quarter 1, 2004														*							
Quarter 2, 2016														*							

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS								URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
CONDUCTIVITY																					
Quarter 4, 2002										*											
Quarter 1, 2003										*											
Quarter 2, 2003										*	*										
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Quarter 4, 2025															*						*
Quarter 1, 2026															*						
Quarter 2, 2026															*						
CYANIDE																					
Quarter 2, 2025																			*		
DISSOLVED OXYGEN																					
Quarter 1, 2003					*	*				*											
Quarter 3, 2003					*					*											
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Quarter 4, 2006					*				*												
Quarter 2, 2007					*			*													
Quarter 3, 2007					*			*	*												
Quarter 1, 2008					*														*		
Quarter 2, 2008								*	*												
Quarter 3, 2008								*													

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
DISSOLVED OXYGEN																					
Quarter 1, 2009							*														
Quarter 2, 2009					*			*	*												
Quarter 3, 2009						*		*	*												
Quarter 1, 2010					*		*														
Quarter 2, 2010					*	*		*	*											*	*
Quarter 3, 2010					*	*															
Quarter 4, 2010							*					*								*	
Quarter 1, 2011						*															
Quarter 2, 2011					*	*	*	*	*					*							
Quarter 3, 2011						*			*												
Quarter 1, 2012							*		*												
Quarter 2, 2012	*			*	*	*		*	*												
Quarter 3, 2012						*															
Quarter 4, 2012									*												
Quarter 1, 2013						*			*												
Quarter 2, 2013							*		*												
Quarter 3, 2013	*				*		*	*	*												
Quarter 4, 2013									*											*	
Quarter 2, 2014	*				*	*	*	*	*									*			
Quarter 3, 2014	*				*	*	*														
Quarter 4, 2014						*															
Quarter 2, 2015					*	*	*	*													
Quarter 3, 2015					*	*		*													
Quarter 4, 2015	*					*	*														
Quarter 1, 2016	*				*		*														
Quarter 2, 2016	*	*			*	*	*	*	*											*	*
Quarter 3, 2016					*	*	*	*					*								
Quarter 4, 2016						*			*												
Quarter 1, 2017							*						*								
Quarter 2, 2017	*				*	*	*	*													
Quarter 3, 2017	*	*			*	*	*	*										*			
Quarter 4, 2017						*	*											*			
Quarter 1, 2018					*	*	*	*												*	
Quarter 2, 2018					*	*	*	*													
Quarter 3, 2018	*				*	*	*	*													
Quarter 4, 2018						*															
Quarter 1, 2019					*	*	*	*													
Quarter 2, 2019					*	*		*													
Quarter 3, 2019	*				*	*	*	*													
Quarter 4, 2019					*	*	*														
Quarter 1, 2020							*	*	*												
Quarter 2, 2020					*	*		*													
Quarter 3, 2020	*				*	*															
Quarter 4, 2020	*						*														
Quarter 1, 2021					*		*													*	
Quarter 2, 2021					*	*	*	*	*												
Quarter 3, 2021	*				*	*	*	*												*	
Quarter 4, 2021					*		*	*												*	
Quarter 1, 2022	*				*	*	*	*					*				*			*	
Quarter 2, 2022	*				*	*	*	*	*												
Quarter 3, 2022	*	*			*	*	*	*					*				*			*	
Quarter 4, 2022		*					*	*												*	
Quarter 2, 2023	*				*	*	*	*									*				
Quarter 3, 2023						*	*	*													
Quarter 4, 2023		*				*	*													*	
Quarter 1, 2024																				*	
Quarter 2, 2024	*					*	*	*													
Quarter 3, 2024	*				*	*	*	*									*				
Quarter 4, 2024					*	*	*														
Quarter 1, 2025	*				*	*	*	*	*									*		*	
Quarter 2, 2025		*			*	*	*	*	*	*										*	
Quarter 3, 2025	*	*			*	*	*	*						*			*			*	
Quarter 4, 2025						*	*	*		*						*	*	*	*	*	
Quarter 1, 2026						*	*										*	*		*	
Quarter 2, 2026						*	*	*									*			*	
DISSOLVED SOLIDS																					
Quarter 4, 2002										*											
Quarter 1, 2003										*											
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Quarter 3, 2003							*			*	*										
Quarter 4, 2003										*											
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Quarter 4, 2012															*						
Quarter 1, 2013															*						
Quarter 2, 2013															*						
Quarter 3, 2013															*						
Quarter 4, 2013															*						

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS								URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
DISSOLVED SOLIDS																					
Quarter 1, 2014															✱						
Quarter 2, 2014															✱						
Quarter 4, 2014															✱						
Quarter 2, 2015															✱						
Quarter 3, 2015															✱						
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Quarter 4, 2021															✱						
Quarter 1, 2022															✱						
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Quarter 1, 2023															✱						
Quarter 2, 2023															✱						
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Quarter 1, 2024															✱						
Quarter 2, 2024															✱						
Quarter 3, 2024															✱						
Quarter 4, 2024															✱						
Quarter 1, 2025															✱						
Quarter 2, 2025															✱						✱
Quarter 3, 2025															✱						✱
Quarter 4, 2025															✱						
Quarter 1, 2026															✱						✱
Quarter 2, 2026															✱						✱
IODIDE																					
Quarter 2, 2003																✱					
Quarter 3, 2003	✱									✱											
Quarter 4, 2003							✱														
Quarter 3, 2010						✱		✱					✱				✱				
IODINE-131																					
Quarter 3, 2010																		■			
IODOMETHANE																					
Quarter 4, 2003						✱															
IRON																					
Quarter 4, 2002						✱															
Quarter 3, 2003																✱					
Quarter 4, 2003										✱						✱					
Quarter 1, 2004										✱						✱					
Quarter 2, 2004										✱											
Quarter 3, 2004										✱											
Quarter 3, 2005																✱					
MAGNESIUM																					
Quarter 2, 2005															✱						✱
Quarter 3, 2005						✱															✱
Quarter 2, 2006															✱						✱
Quarter 3, 2006															✱						
Quarter 1, 2007															✱						
Quarter 2, 2008															✱						
Quarter 2, 2009															✱						
Quarter 3, 2009															✱						
Quarter 4, 2009															✱						
Quarter 1, 2010															✱						
Quarter 2, 2010															✱						
Quarter 3, 2010															✱						
Quarter 1, 2011															✱						
Quarter 2, 2011															✱						
Quarter 3, 2011															✱						
Quarter 4, 2011															✱						
Quarter 1, 2012															✱						
Quarter 2, 2012															✱						
Quarter 3, 2012															✱						
Quarter 4, 2012															✱						
Quarter 1, 2013															✱						
Quarter 2, 2013															✱						
Quarter 3, 2013															✱						
Quarter 4, 2013															✱						
Quarter 2, 2014															✱						
Quarter 4, 2014															✱						
Quarter 2, 2015															✱						
Quarter 3, 2015															✱						
Quarter 4, 2015															✱						
Quarter 1, 2016															✱						
Quarter 2, 2016															✱						
Quarter 3, 2016	✱																				
Quarter 4, 2016	✱																				
Quarter 2, 2017	✱																				
Quarter 3, 2017	✱																				
Quarter 1, 2018	✱																				
Quarter 3, 2018	✱																				
Quarter 3, 2019	✱																				
Quarter 4, 2019															✱						
Quarter 2, 2020															✱						
Quarter 4, 2020															✱						
Quarter 1, 2021															✱						
Quarter 2, 2021															✱						
Quarter 3, 2021															✱						
Quarter 4, 2021															✱						
Quarter 1, 2022															✱						
Quarter 2, 2022															✱						
Quarter 3, 2022								✱							✱						
Quarter 1, 2023								✱							✱						
Quarter 2, 2023															✱						
Quarter 1, 2024								✱							✱						
Quarter 2, 2024															✱						
Quarter 3, 2024															✱						
Quarter 4, 2024															✱						
Quarter 1, 2025															✱						✱
Quarter 2, 2025															✱						
Quarter 3, 2025															✱						✱
Quarter 4, 2025															✱						
Quarter 1, 2026								✱							✱						
Quarter 2, 2026															✱						✱

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
MANGANESE																					
Quarter 3, 2002										✱		✱									
Quarter 4, 2002		✱				✱	✱			✱		✱		✱							
Quarter 2, 2003										✱		✱									
Quarter 3, 2003										✱		✱	✱			✱	✱	✱	✱		
Quarter 4, 2003										✱	✱	✱	✱				✱	✱			
Quarter 1, 2004										✱	✱	✱				✱	✱	✱			
Quarter 2, 2004							✱			✱	✱	✱						✱			
Quarter 3, 2004							✱			✱	✱	✱				✱					
Quarter 4, 2004										✱		✱				✱					
Quarter 1, 2005										✱		✱									
Quarter 2, 2005										✱		✱									
Quarter 3, 2005										✱		✱				✱					
Quarter 4, 2005										✱						✱					
Quarter 1, 2006										✱											
Quarter 2, 2006							✱			✱		✱									
Quarter 3, 2006										✱						✱					
Quarter 4, 2006										✱											
Quarter 1, 2007										✱											
Quarter 2, 2007							✱			✱											
Quarter 3, 2007							✱														
Quarter 3, 2008							✱														
Quarter 4, 2008							✱														
Quarter 3, 2009							✱														
Quarter 3, 2011							✱														
Quarter 2, 2016														✱							
Quarter 3, 2016									✱												
Quarter 1, 2022																			✱		
NICKEL																					
Quarter 3, 2003										✱											
Quarter 1, 2022																			✱		
Quarter 4, 2022																			✱		
Quarter 1, 2023																			✱		
Quarter 2, 2023																			✱		
Quarter 4, 2023												✱									
Quarter 1, 2024																			✱		
NITRATE AS NITROGEN																					
Quarter 4, 2021												■									
OXIDATION-REDUCTION POTENTIAL																					
Quarter 4, 2002																	✱		✱		
Quarter 1, 2003																	✱		✱		
Quarter 2, 2003																			✱		
Quarter 3, 2003	✱																				
Quarter 4, 2003					✱																
Quarter 2, 2004													✱				✱				✱
Quarter 3, 2004					✱			✱					✱	✱	✱		✱			✱	✱
Quarter 4, 2004												✱									✱
Quarter 1, 2005																	✱			✱	✱
Quarter 2, 2005								✱					✱				✱			✱	
Quarter 3, 2005					✱	✱		✱			✱	✱	✱				✱		✱	✱	✱
Quarter 4, 2005		✱						✱					✱				✱			✱	
Quarter 1, 2006					✱			✱	✱								✱				✱
Quarter 2, 2006					✱		✱	✱					✱				✱			✱	
Quarter 3, 2006					✱			✱					✱				✱			✱	
Quarter 4, 2006					✱		✱			✱		✱	✱				✱			✱	✱
Quarter 1, 2007		✱			✱			✱					✱				✱			✱	✱
Quarter 2, 2007					✱								✱				✱			✱	✱
Quarter 3, 2007					✱			✱									✱			✱	
Quarter 4, 2007																	✱			✱	✱
Quarter 1, 2008					✱			✱				✱	✱						✱	✱	
Quarter 2, 2008					✱			✱		✱			✱	✱				✱		✱	✱
Quarter 3, 2008					✱		✱	✱	✱	✱		✱	✱	✱			✱	✱	✱	✱	✱
Quarter 4, 2008								✱		✱		✱	✱				✱	✱		✱	✱
Quarter 1, 2009							✱	✱		✱		✱	✱					✱		✱	
Quarter 2, 2009					✱		✱	✱		✱		✱	✱				✱	✱		✱	✱
Quarter 3, 2009		✱			✱	✱	✱	✱	✱	✱		✱	✱	✱			✱	✱	✱	✱	✱
Quarter 4, 2009		✱				✱	✱	✱	✱	✱		✱	✱				✱	✱	✱	✱	✱
Quarter 1, 2010		✱			✱		✱	✱		✱			✱			✱	✱	✱		✱	
Quarter 2, 2010					✱	✱		✱		✱	✱	✱	✱			✱	✱	✱	✱	✱	✱
Quarter 3, 2010		✱			✱	✱	✱	✱	✱	✱	✱		✱	✱	✱		✱	✱	✱	✱	✱
Quarter 4, 2010		✱				✱	✱	✱	✱	✱	✱	✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 1, 2011						✱		✱		✱	✱	✱	✱	✱		✱	✱	✱	✱	✱	
Quarter 2, 2011		✱			✱	✱	✱	✱	✱	✱	✱	✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 3, 2011		✱				✱		✱	✱	✱		✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 4, 2011		✱				✱		✱	✱	✱	✱	✱	✱	✱		✱	✱	✱		✱	✱
Quarter 1, 2012		✱				✱	✱	✱	✱	✱	✱	✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 2, 2012	✱	✱		✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 3, 2012		✱				✱		✱		✱		✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 4, 2012		✱				✱		✱	✱	✱	✱	✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 1, 2013		✱				✱		✱	✱	✱	✱	✱	✱	✱		✱	✱	✱		✱	
Quarter 2, 2013		✱						✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 3, 2013	✱	✱			✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 4, 2013		✱				✱		✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 1, 2014		✱						✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 2, 2014	✱	✱			✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 3, 2014	✱	✱			✱	✱	✱	✱	✱	✱		✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 4, 2014		✱				✱		✱	✱	✱		✱	✱	✱		✱	✱	✱	✱	✱	✱
Quarter 1, 2015		✱				✱		✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 2, 2015	✱	✱			✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 3, 2015		✱			✱	✱		✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱
Quarter 4, 2015	✱	✱				✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱	✱

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
OXIDATION-REDUCTION POTENTIAL																					
Quarter 1, 2016	*	*			*		*	*		*		*	*	*	*	*	*	*	*	*	*
Quarter 2, 2016	*	*			*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*
Quarter 3, 2016	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2016	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2017	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2017	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2017	*	*			*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*
Quarter 4, 2017		*				*	*	*	*	*		*	*	*	*		*	*		*	*
Quarter 1, 2018	*	*			*	*	*	*	*	*		*	*	*	*	*	*	*		*	*
Quarter 2, 2018	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2018	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2018		*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2019	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2019	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2019	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*
Quarter 4, 2019	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2020	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*
Quarter 2, 2020	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*
Quarter 3, 2020	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*
Quarter 4, 2020	*	*				*	*	*	*	*	*		*	*	*	*	*	*		*	*
Quarter 1, 2021	*	*			*	*	*	*		*	*	*	*	*	*	*	*	*		*	*
Quarter 2, 2021	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2021	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2021	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2022	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2022	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2022	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2022		*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2023		*				*		*	*	*	*	*	*	*	*	*	*	*		*	*
Quarter 2, 2023	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2023		*				*	*	*	*	*	*	*	*	*	*	*	*	*		*	*
Quarter 4, 2023		*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2024		*				*		*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2024	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2024	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2024		*			*	*	*	*	*	*	*	*		*	*	*	*	*	*	*	*
Quarter 1, 2025	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2025	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 3, 2025	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 4, 2025	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 1, 2026		*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Quarter 2, 2026		*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PCB, TOTAL																					
Quarter 4, 2003																	*				
Quarter 3, 2004												*									
Quarter 3, 2005							*														
Quarter 2, 2006							*														
Quarter 3, 2006							*														
Quarter 1, 2007							*														
Quarter 2, 2007							*														
Quarter 3, 2007							*														
Quarter 1, 2008							*														
Quarter 2, 2008							*														
Quarter 4, 2008							*														
Quarter 3, 2009							*														
Quarter 1, 2010							*														
Quarter 2, 2010							*														
Quarter 4, 2010							*														
PCB-1016																					
Quarter 3, 2004												*									
Quarter 2, 2006							*					*									
Quarter 1, 2007							*														
Quarter 2, 2007							*														
Quarter 3, 2007							*														
Quarter 2, 2008							*														
Quarter 4, 2008							*														
Quarter 3, 2009							*														
Quarter 1, 2010							*														
Quarter 2, 2010							*														
Quarter 4, 2010							*														
PCB-1242																					
Quarter 3, 2006							*					*									
Quarter 4, 2006										*											
Quarter 1, 2008							*														
Quarter 2, 2012							*														
PCB-1248																					
Quarter 2, 2008							*														
PCB-1260																					
Quarter 2, 2006							*														
pH																					
Quarter 3, 2002										*											
Quarter 4, 2002										*											
Quarter 1, 2003										*											
Quarter 2, 2003										*											
Quarter 3, 2003	*						*			*											
Quarter 4, 2003							*									*					
Quarter 1, 2004							*									*					
Quarter 3, 2005						*												*	*		
Quarter 4, 2005						*													*		
Quarter 3, 2006																*					
Quarter 2, 2011														*							
Quarter 3, 2011														*							
Quarter 4, 2011														*							
Quarter 1, 2012																*	*				
Quarter 2, 2012												*									
Quarter 1, 2013										*		*				*					
Quarter 3, 2015																	*				
Quarter 2, 2016																				*	*
Quarter 3, 2016																				*	
Quarter 2, 2017																	*				
pH																					
Quarter 3, 2018					*					*		*					*	*	*		
Quarter 4, 2018																*		*			
Quarter 3, 2019																*					
Quarter 1, 2021																*		*		*	
Quarter 3, 2021																					*
Quarter 4, 2021																*					*
Quarter 1, 2025																*					
Quarter 3, 2025																*	*	*			
Quarter 1, 2026																*					
Quarter 2, 2026																*					
POTASSIUM																					
Quarter 1, 2014																*					
RADIUM-228																					
Quarter 2, 2005														■							

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
Quarter 4, 2005						■					■							■			
SELENIUM																					
Quarter 4, 2003									■												
SODIUM																					
Quarter 3, 2002										✱	✱		✱								
Quarter 4, 2002										✱	✱			✱							
Quarter 1, 2003										✱											
Quarter 2, 2003										✱	✱										
Quarter 3, 2003											✱										
Quarter 1, 2007											✱										
Quarter 1, 2012														✱							
Quarter 1, 2014															✱						
Quarter 3, 2014											✱										
Quarter 4, 2014											✱										
Quarter 4, 2015											✱										
Quarter 1, 2016											✱										
Quarter 2, 2016											✱										
Quarter 3, 2016											✱										
Quarter 4, 2016											✱										
Quarter 1, 2017											✱										
Quarter 2, 2017											✱										
Quarter 3, 2017											✱										
Quarter 4, 2017											✱										
Quarter 1, 2018											✱										
Quarter 3, 2018											✱										
STRONTIUM-90																					
Quarter 4, 2008							■														
SULFATE																					
Quarter 1, 2003							✱														
Quarter 2, 2003						✱	✱														
Quarter 3, 2003	✱					✱															
Quarter 4, 2003					✱		✱														
Quarter 1, 2004					✱	✱	✱														
Quarter 2, 2004					✱	✱	✱														
Quarter 3, 2004					✱	✱	✱														
Quarter 1, 2005					✱	✱			✱												
Quarter 2, 2005					✱		✱		✱						✱						
Quarter 3, 2005					✱	✱	✱														
Quarter 4, 2005															✱						
Quarter 1, 2006					✱				✱												
Quarter 2, 2006						✱	✱		✱						✱						
Quarter 3, 2006							✱														
Quarter 1, 2007							✱														
Quarter 2, 2007							✱														
Quarter 3, 2007							✱														
Quarter 4, 2007		✱																			
Quarter 1, 2008		✱			✱		✱		✱												
Quarter 2, 2008		✱			✱	✱	✱														
Quarter 3, 2008		✱			✱	✱	✱														
Quarter 4, 2008		✱				✱	✱														
Quarter 1, 2009		✱					✱														
Quarter 2, 2009		✱			✱	✱	✱														
Quarter 3, 2009		✱			✱	✱	✱								✱						
Quarter 4, 2009		✱			✱	✱									✱						
Quarter 1, 2010		✱			✱	✱	✱								✱						
Quarter 2, 2010		✱			✱	✱	✱								✱						
Quarter 3, 2010		✱			✱	✱	✱								✱						
Quarter 4, 2010		✱				✱	✱								✱						
Quarter 1, 2011		✱																			
Quarter 2, 2011		✱			✱	✱	✱								✱						
Quarter 3, 2011		✱				✱	✱	✱							✱						
Quarter 4, 2011		✱				✱									✱						
Quarter 1, 2012		✱					✱	✱							✱						
Quarter 2, 2012	✱	✱		✱	✱	✱	✱	✱	✱						✱						
Quarter 3, 2012		✱				✱									✱						
Quarter 4, 2012		✱													✱						
Quarter 1, 2013		✱				✱									✱						
Quarter 2, 2013		✱													✱						
Quarter 3, 2013	✱	✱		✱	✱	✱	✱								✱						
Quarter 4, 2013		✱													✱						
Quarter 1, 2014		✱													✱						
Quarter 2, 2014	✱	✱			✱		✱	✱							✱						
Quarter 3, 2014	✱	✱			✱	✱	✱	✱							✱						
Quarter 4, 2014		✱				✱															
Quarter 1, 2015		✱																			

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
SULFATE																					
Quarter 2, 2015	*	*			*		*								*						
Quarter 3, 2015		*			*	*		*							*						
Quarter 4, 2015	*	*				*	*	*													
Quarter 1, 2016	*	*			*	*	*														
Quarter 2, 2016	*	*			*	*	*														
Quarter 3, 2016	*	*			*	*	*	*													
Quarter 4, 2016	*	*				*	*	*													
Quarter 1, 2017	*	*				*	*														
Quarter 2, 2017	*	*			*	*	*														
Quarter 3, 2017	*	*			*	*	*														
Quarter 4, 2017		*				*	*														
Quarter 1, 2018	*	*			*	*	*														
Quarter 2, 2018	*	*			*	*	*	*													
Quarter 3, 2018	*	*			*	*	*	*													
Quarter 4, 2018		*				*	*	*													
Quarter 1, 2019	*	*			*	*	*														
Quarter 2, 2019	*	*			*	*	*	*													
Quarter 3, 2019	*	*			*	*	*	*													
Quarter 4, 2019	*	*			*	*	*	*													
Quarter 1, 2020	*	*			*	*	*	*													
Quarter 2, 2020	*	*			*	*	*	*													
Quarter 3, 2020	*	*			*	*	*	*													
Quarter 4, 2020	*	*				*	*	*													
Quarter 1, 2021	*	*			*	*	*	*							*						
Quarter 2, 2021	*	*			*	*	*	*							*						
Quarter 3, 2021	*	*			*	*	*	*							*						
Quarter 4, 2021	*	*			*	*	*								*						
Quarter 1, 2022	*	*			*	*	*								*						
Quarter 2, 2022	*	*			*	*	*	*	*						*						
Quarter 3, 2022	*	*			*	*	*	*	*						*						
Quarter 4, 2022		*				*	*														
Quarter 1, 2023		*				*									*						
Quarter 2, 2023	*	*			*	*	*	*	*						*						
Quarter 3, 2023		*				*	*	*	*						*						
Quarter 4, 2023		*				*	*	*							*						
Quarter 1, 2024		*							*						*						
Quarter 2, 2024	*	*				*	*		*						*						
Quarter 3, 2024	*	*			*	*	*		*						*						
Quarter 4, 2024		*			*	*	*		*						*						
Quarter 1, 2025	*	*			*	*	*		*						*						
Quarter 2, 2025	*	*			*	*	*	*	*						*						
Quarter 3, 2025	*	*			*	*	*	*	*						*						
Quarter 4, 2025	*	*				*	*		*						*						
Quarter 1, 2026		*				*	*		*						*						
Quarter 2, 2026		*				*	*		*						*						
TECHNETIUM-99																					
Quarter 4, 2002																	*	*	*		
Quarter 2, 2003							*						*			*	*	*	*		*
Quarter 3, 2003																	*				
Quarter 4, 2003																	*				*
Quarter 1, 2004															*		*				*
Quarter 2, 2004															*						*
Quarter 3, 2004															*						*
Quarter 4, 2004															*		*				*
Quarter 3, 2005																	*				
Quarter 1, 2006															*						*
Quarter 2, 2006		*							*												*
Quarter 3, 2006																					*
Quarter 4, 2006															*						*
Quarter 1, 2007																					*
Quarter 2, 2007													*		*					*	
Quarter 3, 2007															*		*	*			
Quarter 4, 2007										*					*				*		*
Quarter 1, 2008															*					*	*
Quarter 2, 2008							*	*						*		*			*		
Quarter 3, 2008															*						
Quarter 4, 2008										*							*		*		
Quarter 1, 2009										*											
Quarter 2, 2009																		*			
Quarter 3, 2009								*		*					*						
Quarter 4, 2009										*					*			*	*		
Quarter 2, 2010										*						*	*	*	*		
Quarter 3, 2010										*					*						
Quarter 4, 2010																		*			
Quarter 1, 2011		*								*							*				
Quarter 2, 2011																*	*	*	*		
Quarter 1, 2012																	*	*			
Quarter 2, 2012								*										*			
Quarter 3, 2012																	*	*			
Quarter 4, 2012															*			*			*
Quarter 1, 2013																		*			*
Quarter 2, 2013																					*
Quarter 3, 2013										*											*
Quarter 4, 2013															*		*	*			*
Quarter 1, 2014															*		*	*			
Quarter 2, 2014																		*			
Quarter 3, 2014																	*	*	*		
Quarter 4, 2014															*						
Quarter 1, 2015															*			*			
Quarter 2, 2015																*					
Quarter 3, 2015																		*	*	*	
Quarter 4, 2015															*		*			*	
Quarter 1, 2016																*	*	*	*		*
Quarter 2, 2016																*	*	*	*	*	
Quarter 3, 2016																	*		*	*	
Quarter 4, 2016										*				*			*	*			
Quarter 1, 2017																	*		*	*	
Quarter 2, 2017																				*	
Quarter 3, 2017																		*		*	
Quarter 4, 2017														*	*		*	*		*	
Quarter 1, 2018																				*	
TECHNETIUM-99																					
Quarter 2, 2018														*		*				*	
Quarter 3, 2018															*					*	
Quarter 4, 2018															*		*	*	*	*	
Quarter 1, 2019																*				*	
Quarter 2, 2019														*						*	
Quarter 3, 2019															*			*		*	
Quarter 4, 2019															*		*	*		*	
Quarter 1, 2020															*		*	*		*	
Quarter 2, 2020																*		*	*	*	
Quarter 3, 2020															*		*	*	*	*	
Quarter 4, 2020															*		*	*		*	
Quarter 1, 2021																				*	
Quarter 2, 2021										*						*	*	*	*		
Quarter 3, 2021														*	*			*			
Quarter 4, 2021																	*	*			
Quarter 1, 2022										*							*	*			
Quarter 2, 2022										*					*			*			

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
Quarter 3, 2022															✱		✱	✱			
Quarter 4, 2022															✱						
Quarter 1, 2023										✱					✱		✱	✱			
Quarter 2, 2023										✱								✱			
Quarter 3, 2023																	✱	✱	✱		
Quarter 4, 2023														✱			✱	✱			
Quarter 1, 2024																	✱	✱			
Quarter 2, 2024														✱							
Quarter 3, 2024										✱								✱			
Quarter 4, 2024										✱				✱	✱			✱			
Quarter 1, 2025										✱							✱	✱			
Quarter 2, 2025																✱	✱	✱			
Quarter 3, 2025										✱								✱			
Quarter 4, 2025										✱				✱	✱		✱	✱			
Quarter 1, 2026										✱					✱		✱				
Quarter 2, 2026										✱							✱	✱			
THORIUM-230																					
Quarter 4, 2015																✱					
Quarter 2, 2016										✱											
Quarter 4, 2016	✱											✱				✱			✱		
Quarter 4, 2017													✱								
Quarter 2, 2018										✱			✱								
Quarter 2, 2021									✱												
Quarter 1, 2025					✱																
TOLUENE																					
Quarter 2, 2014										✱				✱							
TOTAL ORGANIC CARBON																					
Quarter 3, 2002										✱	✱	✱		✱							✱
Quarter 4, 2002										✱	✱			✱							
Quarter 1, 2003											✱										
Quarter 3, 2003	✱									✱	✱					✱					
Quarter 4, 2003										✱	✱										
Quarter 1, 2004											✱										
Quarter 3, 2005						✱				✱					✱	✱			✱		
Quarter 4, 2005						✱												✱	✱		
Quarter 1, 2006																			✱		
TOTAL ORGANIC HALIDES																					
Quarter 4, 2002										✱											
Quarter 1, 2003										✱											
Quarter 2, 2003										✱											
Quarter 1, 2004																✱					
TRICHLOROETHENE																					
Quarter 3, 2002														■						■	
Quarter 4, 2002															■					■	
Quarter 1, 2003																				■	■
Quarter 2, 2003															■					■	
Quarter 3, 2003							■													■	■
Quarter 4, 2003															■					■	■
Quarter 1, 2004															■					■	■
Quarter 2, 2004															■					■	■
Quarter 3, 2004															■					■	■
Quarter 4, 2004															■					■	■
Quarter 1, 2005															■					■	■
Quarter 2, 2005															■					■	■
Quarter 3, 2005															■					■	■
Quarter 4, 2005															■					■	■
Quarter 1, 2006															■					■	■
Quarter 2, 2006															■					■	■
Quarter 3, 2006															■					■	■
Quarter 4, 2006															■						■
Quarter 1, 2007															■					■	■
Quarter 2, 2007															■						■
Quarter 3, 2007															■						■
Quarter 4, 2007															■						■
Quarter 1, 2008															■						■
Quarter 2, 2008															■				■		■
Quarter 3, 2008															■						■
Quarter 4, 2008															■						■
Quarter 1, 2009															■						■
Quarter 2, 2009															■						■
Quarter 3, 2009															■						■
Quarter 4, 2009						■	■				■		■	■	■		■				■
Quarter 1, 2010													■		■						■
Quarter 2, 2010													■		■						■
Quarter 3, 2010													■		■						■
Quarter 4, 2010													■		■						■
Quarter 2, 2011															■				■		■
Quarter 3, 2011													■		■				■		■
Quarter 4, 2011													■		■						■
Quarter 1, 2012													■		■		■		■		■
Quarter 2, 2012															■						■

Chart of MCL and Historical UTL Exceedances for the C-746-U Contained Landfill (Continued)

Groundwater Flow System	UCRS									URGA						LRGA					
Gradient	D	S	S	S	D	D	D	U	U	D	D	D	D	U	U	D	D	D	D	U	U
Monitoring Well	368	375	376	377	359	362	365	371	374	366	360	363	357	369	372	367	361	364	358	370	373
TRICHLOROETHENE																					
Quarter 3, 2012															■						■
Quarter 4, 2012														■	■						■
Quarter 1, 2013													■		■						■
Quarter 2, 2013													■		■		■		■		■
Quarter 3, 2013																	■	■			
Quarter 3, 2013													■		■						■
Quarter 4, 2013													■		■				■		■
Quarter 1, 2014													■		■				■		■
Quarter 2, 2014															■		■		■		
Quarter 3, 2014													■		■				■		■
Quarter 4, 2014													■		■				■		■
Quarter 1, 2015													■		■						■
Quarter 2, 2015					■										■				■		■
Quarter 3, 2015													■		■		■				■
Quarter 4, 2015													■		■						■
Quarter 1, 2016													■		■		■	■			■
Quarter 2, 2016												■	■		■		■		■		■
Quarter 3, 2016													■		■		■	■			■
Quarter 4, 2016													■		■		■	■	■		■
Quarter 1, 2017													■		■			■			■
Quarter 2, 2017															■		■	■			■
Quarter 3, 2017															■		■	■			■
Quarter 4, 2017										■			■	■			■	■			■
Quarter 1, 2018															■		■	■			■
Quarter 2, 2018													■		■	■	■	■	■		■
Quarter 3, 2018										■					■		■	■			■
Quarter 4, 2018										■			■		■		■	■	■		■
Quarter 1, 2019										■					■	■	■	■			
Quarter 2, 2019										■						■	■	■			■
Quarter 3, 2019																	■	■	■		
Quarter 4, 2019																	■	■			
Quarter 1, 2020															■		■	■			
Quarter 2, 2020																■		■			
Quarter 3, 2020																	■	■			
Quarter 4, 2020																	■	■			
Quarter 1, 2021																	■	■			
Quarter 2, 2021																		■			■
Quarter 3, 2021																	■	■			
Quarter 4, 2021																	■	■			■
Quarter 1, 2022																	■				■
Quarter 2, 2022																	■				■
Quarter 3, 2022																	■				
Quarter 1, 2023													■	■	■		■				■
Quarter 2, 2023															■						
Quarter 3, 2023											■		■		■					■	
TURBIDITY																					
Quarter 1, 2003										✱											
URANIUM																					
Quarter 4, 2002		✱			✱	✱	✱			✱	✱	✱	✱	✱	✱	✱		✱	✱	✱	✱
Quarter 4, 2006																					✱
ZINC																					
Quarter 3, 2005																			✱		

✱ Statistical test results indicate an elevated concentration (i.e., a statistical exceedance).

■ MCL Exceedance

▣ Previously reported as an MCL exceedance; however, result was equal to MCL

UCRS Upper Continental Recharge System

URGA Upper Regional Gravel Aquifer

LRGA Lower Regional Gravel Aquifer

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APPENDIX H

METHANE MONITORING DATA

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CP3-WM-0017-F04 - C-746-U LANDFILL METHANE MONITORING REPORT

PADUCAH GASEOUS DIFFUSION PLANT

Permit #: 073-00045

McCracken County, Kentucky

Date:	May 18, 2026	Time:	1251-1344	Monitor:	Michael Hideg

Weather Conditions: 86º F, Humidity: 60%, Strong Wind/Breeze

Monitoring Equipment: Multi RAE PGM6228, Serial # M01E011882

Monitoring Location		Reading (% LEL)
C-746-U1	Checked at close to ground level	0
C-746-U2	Checked at close to ground level	0
C-746-U-T-14	Checked at close to ground level	0
C-746-U15	Checked at close to ground level	0
MG1	Checked inside casing	0
MG2	Checked inside casing	0
MG3	Checked inside casing	0
MG4	Checked inside casing	0
Suspect or Problem Areas	No problems noted	None

Remarks: N/A

Performed by: MICHAEL HIDEG (Affiliate) Digitally signed by MICHAEL HIDEG (Affiliate) Date: 2026.05.27 13:51:09 -05'00'

Signature **Date**

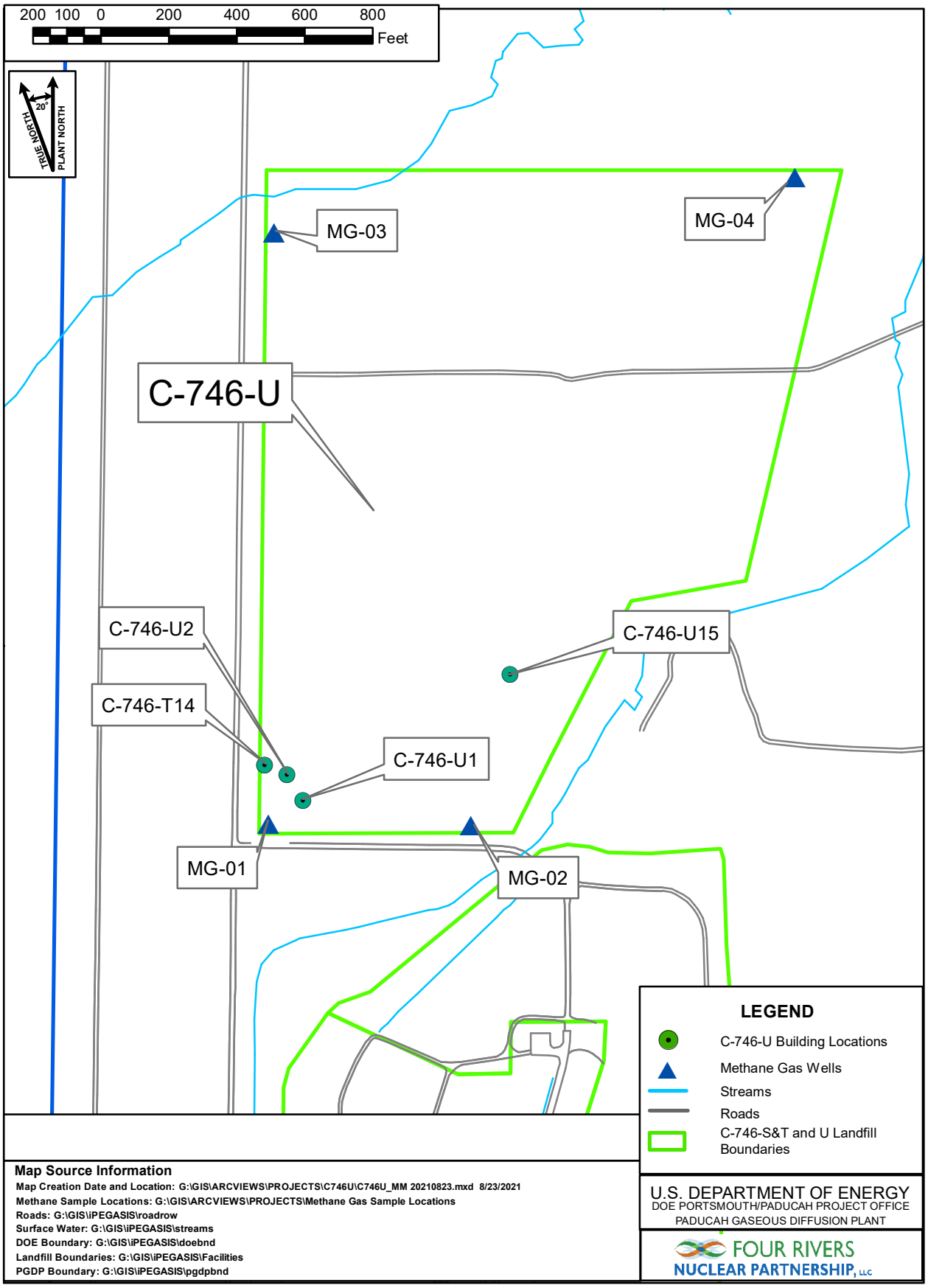

Figure H.1. C-746-U Landfill Methane Monitoring Locations

APPENDIX I

SURFACE WATER ANALYSES AND LABORATORY REPORTS

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Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: L150 INSTREAM **Period:** 2nd Quarter 2026

SAMPLE ID: L150US3-26 **Sample Type:** REG **Date Collected:** 4/29/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chloride	38.9	mg/L		10	/	EPA-300.0		X
Sulfate	36.4	mg/L		20	/	EPA-300.0		X
Conductivity	388	µmhos/cm			/	FS		X
pH	7.41	Std Unit			/	FS		X
Iron	0.173	mg/L		0.1	/	EPA-200.8		X
Sodium	23.7	mg/L		0.25	/	EPA-200.8		X
Uranium	0.00127	mg/L		0.0002	/	EPA-200.8		X
Alpha activity	3.36	pCi/L	U	8.09	4.67 / 4.7	SW846-9310		X
Beta activity	-0.606	pCi/L	U	8.59	4.52 / 4.52	SW846-9310		X
Dissolved Solids	208	mg/L	*	10	/	EPA-160.1	J	X
Suspended Solids	5.6	mg/L	J	10	/	EPA-160.2		X
Chemical Oxygen Demand (COD)	23.2	mg/L		20	/	EPA-410.4		X
Total Solids	256	mg/L		10	/	SM-2540B		X
Total Organic Carbon (TOC)	9.09	mg/L		1	/	SW846-9060A		X

Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: L154 INSTREAM **Period:** 2nd Quarter 2026

SAMPLE ID: L154US3-26 **Sample Type:** REG **Date Collected:** 4/17/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chloride	5.45	mg/L		0.2	/	EPA-300.0		X
Sulfate	1.05	mg/L		0.4	/	EPA-300.0		X
Conductivity	177	µmhos/cm			/	FS		X
pH	7.4	Std Unit			/	FS		X
Iron	1.96	mg/L		0.1	/	EPA-200.8		X
Sodium	5.02	mg/L		0.25	/	EPA-200.8		X
Uranium	0.00129	mg/L		0.0002	/	EPA-200.8		X
Alpha activity	0.107	pCi/L	U	7.03	3.06 / 3.07	SW846-9310		X
Beta activity	7.85	pCi/L	U	10.4	6.49 / 6.62	SW846-9310		X
Dissolved Solids	110	mg/L	*	10	/	EPA-160.1	J	X
Suspended Solids	12	mg/L	J	12.5	/	EPA-160.2		X
Chemical Oxygen Demand (COD)	38.7	mg/L		20	/	EPA-410.4		X
Total Solids	129	mg/L		10	/	SM-2540B		X
Total Organic Carbon (TOC)	13	mg/L		1	/	SW846-9060A		X

Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045

Sampling Point: L351 DOWNSTREAM **Period:** 2nd Quarter 2026

SAMPLE ID: L351US3-26 **Sample Type:** REG **Date Collected:** 4/17/2026

Parameter	Result	Units	Qualifier	Reporting Limit	Rad Error / TPU	Method	Assessment Code	Validation Code
Chloride	26.3	mg/L		1	/	EPA-300.0		X
Sulfate	68.7	mg/L		2	/	EPA-300.0		X
Conductivity	691	µmhos/cm			/	FS		X
pH	7.7	Std Unit			/	FS		X
Iron	1.52	mg/L		0.1	/	EPA-200.8		X
Sodium	53.8	mg/L		2.5	/	EPA-200.8		X
Uranium	0.0525	mg/L		0.0002	/	EPA-200.8		X
Alpha activity	26.8	pCi/L		8.39	9.43 / 10.4	SW846-9310		X
Beta activity	30.4	pCi/L		13	9.84 / 11.1	SW846-9310		X
Dissolved Solids	388	mg/L	*	10	/	EPA-160.1	J	X
Suspended Solids	30.5	mg/L		12.5	/	EPA-160.2		X
Chemical Oxygen Demand (COD)	25.4	mg/L		20	/	EPA-410.4		X
Total Solids	445	mg/L		10	/	SM-2540B		X
Total Organic Carbon (TOC)	10.7	mg/L		1	/	SW846-9060A		X

Qualifier Code Definitions	
*	Duplicate analysis not within control limits.
B	Analyte was detected in the associated blank.
H	Analysis performed outside holding time requirement.
J	Estimated value.
L	LCS and/or LCSD recovery outside of control limits.
L1	LCS/LCSD RPD outside acceptance criteria.
N	MS and/or MSD recovery outside of control limits.
N1	MS/MSD RPD outside of acceptance criteria.
Q	Quality issue exists with instrument calibration.
P	Difference between results from two GC columns outside control limits.
S	Sample surrogate recovery outside acceptance criteria.
T	Tracer recovery outside control limits of 30-110%.
U	Not detected. (RADS: Value reported is < MDA.)
W	Post-digestion spike recovery outside of control limits.
W1	Post-digestion spike and post-digestion spike duplicate RPD outside of control limits.
X	Other specific flags and footnotes may be required to properly define the results.
Y1	MS and/or MSD recovery outside of control limits.
Y2	MS/MSD RPD outside acceptance criteria.

Sample Type Code Definitions	
REG	Regular
FR	Field Replicate (code used for Field Duplicate)
RI	Equipment Rinsate Blank
FB	Field Blank
TB	Trip Blank

Assessment Code Definitions	
BH-QC	Result may be biased high based upon lab QC (i.e., surrogate, MS/MSD)
BL-QC	Result may be biased low based upon lab QC (i.e., surrogate, MS/MSD)
FDUP-OUT	Field duplicate exceeds the RPD criterion
J	Result estimated
R-H	Result unusable due to historical trending (i.e., outlier)
U	Not detected
U,J	Not detected and result estimated

Validation Code Definitions	
=	Validated result, no additional qualifier necessary
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R	Result rejected by validator.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ	Analyte not detected above the reported detection limit, and the reported detection limit is approximated due to quality deficiency.
X	Not validated

ATTACHMENT I1

GEL LABORATORIES CERTIFICATES OF ANALYSIS

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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID: L150US3-26
Sample ID: 775163001
Matrix: WS
Collect Date: 29-APR-26
Receive Date: 30-APR-26
Collector: Client

Project: FRNP00707
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC, Gross A/B, liquid "As Received"														
Alpha	U	3.36	+/-4.67	8.09	+/-4.70	15.0	pCi/L			SM6	05/06/26	1444	2989014	1
Beta	U	-0.606	+/-4.52	8.59	+/-4.52	50.0	pCi/L							

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID:	L150US3-26	Project:	FRNP00707
Sample ID:	775163001	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	29-APR-26 08:04		
Receive Date:	30-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		9.09	0.330	1.00	mg/L		1	KB3	05/05/26	2118	2990042	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		38.9	3.35	10.0	mg/L		50	CH6	05/14/26	1853	2996193	2
Sulfate		36.4	6.65	20.0	mg/L		50					
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		0.173	0.0330	0.100	mg/L	1.00	1	RM4	05/04/26	1351	2987652	3
Sodium		23.7	0.0800	0.250	mg/L	1.00	1					
Uranium		0.00127	0.0000670	0.000200	mg/L	1.00	1					
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	208	2.38	10.0	mg/L			KLP1	05/06/26	1348	2990556	4
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids	J	5.60	2.28	10.0	mg/L			KLP1	05/06/26	1109	2990546	5
SM 2540 B Solids, Total "As Received"												
Total Solids		256	6.29	10.0	mg/L			KLP1	05/06/26	1132	2990557	6
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		23.2	8.95	20.0	mg/L		1	BR2	05/27/26	1503	3001664	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	CJ3	04/30/26	1700	2987651

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID:	L150US3-26	Project:	FRNP00707
Sample ID:	775163001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9060A	
2	EPA 300.0	
3	EPA 200.8	
4	EPA 160.1	
5	EPA 160.2	
6	SM 2540B	
7	EPA 410.4	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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ATTACHMENT I2

GEL LABORATORIES CERTIFICATES OF ANALYSIS

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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID: L154US3-26
Sample ID: 773562001
Matrix: WS
Collect Date: 17-APR-26
Receive Date: 21-APR-26
Collector: Client

Project: FRNP00707
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC, Gross A/B, liquid "As Received"														
Alpha	U	0.107	+/-3.06	7.03	+/-3.07	15.0	pCi/L			HH3	04/27/26	1324	2982354	1
Beta	U	7.85	+/-6.49	10.4	+/-6.62	50.0	pCi/L							

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: July 7, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID: L351US3-26
Sample ID: 773562002
Matrix: WS
Collect Date: 17-APR-26
Receive Date: 21-APR-26
Collector: Client

Project: FRNP00707
Client ID: FRNP007

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC, Gross A/B, liquid "As Received"														
Alpha		26.8	+/-9.43	8.39	+/-10.4	15.0	pCi/L			HH3	04/27/26	1324	2982354	1
Beta		30.4	+/-9.84	13.0	+/-11.1	50.0	pCi/L							

The following Analytical Methods were performed

Method	Description
1	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID:	L154US3-26	Project:	FRNP00707
Sample ID:	773562001	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	17-APR-26 10:30		
Receive Date:	21-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		13.0	0.330	1.00	mg/L		1	KB3	04/24/26	0109	2981988	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		5.45	0.0670	0.200	mg/L		1	TXT1	04/29/26	2133	2987338	2
Sulfate		1.05	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		1.96	0.0330	0.100	mg/L	1.00	1	PRB	04/24/26	2109	2982076	3
Sodium		5.02	0.0800	0.250	mg/L	1.00	1					
Uranium		0.00129	0.0000670	0.000200	mg/L	1.00	1					
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	110	2.38	10.0	mg/L			KLP1	04/23/26	1112	2983403	4
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids	J	12.0	2.85	12.5	mg/L			KLP1	04/23/26	1030	2983401	5
SM 2540 B Solids, Total "As Received"												
Total Solids		129	6.29	10.0	mg/L			KLP1	04/23/26	1123	2983405	6
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		38.7	8.95	20.0	mg/L		1	BR2	05/13/26	1853	2992842	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JB7	04/22/26	1600	2982075

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID:	L154US3-26	Project:	FRNP00707
Sample ID:	773562001	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9060A	
2	EPA 300.0	
3	EPA 200.8	
4	EPA 160.1	
5	EPA 160.2	
6	SM 2540B	
7	EPA 410.4	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: July 7, 2026

Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Kevil, Kentucky 42053
Contact: Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID:	L351US3-26	Project:	FRNP00707
Sample ID:	773562002	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	17-APR-26 10:50		
Receive Date:	21-APR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		10.7	0.330	1.00	mg/L		1	KB3	04/24/26	0243	2981988	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		26.3	0.335	1.00	mg/L		5	TXT1	04/30/26	1130	2987338	2
Sulfate		68.7	0.665	2.00	mg/L		5					
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		1.52	0.0330	0.100	mg/L	1.00	1	PRB	04/24/26	2120	2982076	3
Uranium		0.0525	0.0000670	0.000200	mg/L	1.00	1					
Sodium		53.8	0.800	2.50	mg/L	1.00	10	PRB	04/24/26	2122	2982076	4
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	388	2.38	10.0	mg/L			KLP1	04/23/26	1112	2983403	5
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids		30.5	2.85	12.5	mg/L			KLP1	04/23/26	1030	2983401	6
SM 2540 B Solids, Total "As Received"												
Total Solids		445	6.29	10.0	mg/L			KLP1	04/23/26	1123	2983405	7
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		25.4	8.95	20.0	mg/L		1	BR2	05/13/26	1853	2992842	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	JB7	04/22/26	1600	2982075

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Certificate of Analysis

Report Date: July 7, 2026

Company :	Four Rivers Nuclear Partnership, LLC
Address :	5600 Hobbs Road
	Kevil, Kentucky 42053
Contact:	Ms. Jaime Morrow
Project:	C-746-U Landfill Surface Water Quarterly(US26-03)

Client Sample ID:	L351US3-26	Project:	FRNP00707
Sample ID:	773562002	Client ID:	FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9060A	
2	EPA 300.0	
3	EPA 200.8	
4	EPA 200.8	
5	EPA 160.1	
6	EPA 160.2	
7	SM 2540B	
8	EPA 410.4	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

APPENDIX J

ANALYTICAL LABORATORY CERTIFICATION

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Accredited Laboratory

A2LA has accredited

GEL LABORATORIES, LLC

Charleston, SC

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2016 TNI Environmental Testing Laboratory Standard, and the requirements of the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP) and Department of Energy Consolidated Audit Program (DOECAP) as detailed in version 6.0 of the DoD Quality System Manual for Environmental Laboratories (QSM), the A2LA *R206 – Specific Requirements – Environmental Testing Laboratory Accreditation Program*, the A2LA *R220 – Specific Requirements – A2LA DoD Environmental Laboratory Accreditation Program*, and the A2LA *R252 – Specific Requirements – A2LA DOECAP Environmental Laboratory Accreditation Program*, accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated *April 2017*).

Presented this 9th day of May 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2567.01
Valid to June 30, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.

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APPENDIX K

LABORATORY ANALYTICAL METHODS

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LABORATORY ANALYTICAL METHODS

Analytical Method	Preparation Method	Product
SM 2540B		Solids, Total
SW846 8260D		Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer
SW846 8011	SW846 8011 PREP	Analysis of 1,2-Dibromoethane (EDB), 1,2-Dibromo-3-Chloropropane (DBCP) and 1,2,3-Trichloropropane in Water by GC/ECD Using Methods 504.1 or 8011
SW846 8082A	SW846 3535A	Analysis of Polychlorinated Biphenyls by GC/ECD by ECD
SW846 6020B	SW846 3005A	Determination of Metals by ICP-MS
SW846 7470A	SW846 7470A Prep	Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer
SW846 9060A		Carbon, Total Organic
SW846 9012B	SW846 9010C Distillation	Cyanide, Total
EPA 300.0		Ion Chromatography Iodide
SW846 9056A		Ion Chromatography
EPA 160.1		Solids, Total Dissolved
EPA 160.2		Solids, Total Suspended
EPA 200.8	EPA 200.2	Determination of Metals by ICP-MS
EPA 410.4		COD
Eichrom Industries, AN-1418		AlphaSpec Ra226, Liquid
DOE EML HASL-300, Th-01-RC Modified		Th-01-RC M, Th Isotopes, Liquid
EPA 904.0 Modified		904.0Mod, Ra228, Liquid
SW846 9310		9310, Alpha/Beta Activity, liquid
EPA 905.0 Modified		905.0Mod, Sr90, liquid
DOE EML HASL-300, Tc-02-RC Modified		Tc-02-RC-MOD, Tc99, Liquid
EPA 906.0 Modified		906.0M, Tritium Dist, Liquid
SW846 9020B		Total Organic Halogens (TOX)

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APPENDIX L

MICRO-PURGING STABILITY PARAMETERS

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Micro-Purge Stability Parameters for the C-746-U Contained Landfill

	Temperature (°F)	Conductivity (µmhos/cm)	pH (Std Unit)	Dissolved oxygen (mg/L)	Turbidity (NTU)
MW357					
Date Collected: 4/14/26					
1208	68.8	428	6.10	4.77	4.06
1213	67.9	430	6.03	4.31	4.00
1218	67.5	424	5.99	4.23	4.04
MW360					
Date Collected: 4/14/26					
0719	61.9	400	6.16	3.00	5.73
0724	61.4	404	6.14	1.91	5.93
0729	61.4	406	6.13	1.81	5.76
MW362					
Date Collected: 4/14/26					
0934	61.7	634	6.98	5.49	5.73
0939	61.8	633	7.01	4.98	5.83
0944	62.0	632	7.01	4.90	5.80
MW364					
Date Collected: 4/15/26					
0816	62.5	464	5.99	5.06	3.83
0821	62.4	470	5.93	3.89	3.88
0826	62.3	469	5.92	3.79	3.91
MW366					
Date Collected: 4/15/26					
1001	64.0	490	6.06	5.11	3.69
1006	63.4	492	6.01	3.56	3.66
1011	63.3	492	5.99	3.50	3.70
MW369					
Date Collected: 4/16/26					
0731	62.0	351	6.29	4.38	4.44
0736	61.7	356	6.07	3.52	4.51
0741	61.7	358	6.06	3.43	4.96
MW371					
Date Collected: 4/16/26					
0923	61.8	622	6.68	6.09	5.35
0928	61.9	630	6.58	5.24	5.48
0933	62.0	632	6.56	5.17	5.06
MW373					
Date Collected: 4/16/26					
1101	63.0	942	6.16	2.55	2.82
1106	62.7	960	6.02	1.70	2.70
1111	62.7	962	6.02	1.62	2.81
MW375					
Date Collected: 4/15/26					
1313	67.2	340	6.40	1.74	3.99
1318	67.2	339	6.33	1.47	3.89
1323	67.3	337	6.30	1.42	3.74

	Temperature (°F)	Conductivity (µmhos/cm)	pH (Std Unit)	Dissolved oxygen (mg/L)	Turbidity (NTU)
MW358					
Date Collected: 4/14/26					
1300	65.7	475	6.23	1.99	5.31
1305	65.0	476	6.19	1.45	5.30
1310	65.1	475	6.18	1.40	5.54
MW361					
Date Collected: 4/14/26					
0825	61.3	513	6.05	5.06	3.98
0830	61.0	515	5.97	4.60	4.07
0835	60.9	516	5.93	4.51	4.00
MW363					
Date Collected: 4/15/26					
0726	71.3	348	7.18	8.01	4.11
0731	64.4	349	6.20	2.64	3.81
0736	63.7	348	6.17	2.55	3.71
MW365					
Date Collected: 4/15/26					
0912	63.2	384	6.43	9.06	3.88
0917	62.8	385	6.41	8.19	3.80
0922	62.9	386	6.40	8.12	3.89
MW367					
Date Collected: 4/15/26					
1202	65.0	236	5.90	3.56	8.99
1207	64.9	238	5.80	2.34	9.23
1212	64.7	240	5.78	2.24	9.11
MW370					
Date Collected: 4/16/26					
0821	61.9	420	6.16	5.99	2.64
0826	62.1	422	6.02	5.00	2.62
0831	61.8	425	6.00	4.90	2.50
MW372					
Date Collected: 4/16/26					
1012	62.2	774	6.27	3.71	2.75
1017	62.1	780	6.15	2.60	2.60
1022	62.1	785	6.11	2.51	2.65
MW374					
Date Collected: 4/16/26					
1233	63.1	671	6.81	4.66	3.89
1238	63.0	671	6.72	2.77	3.75
1243	62.9	670	6.72	2.67	3.70

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