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February 18, 2026

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Dear Mr. Anderson and Mr. Hendricks:

**C-746-U CONTAINED LANDFILL FOURTH QUARTER CALENDAR YEAR 2025
(OCTOBER–DECEMBER) COMPLIANCE MONITORING REPORT, PADUCAH
GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, FRNP-RPT-0387/V4,
PERMIT NUMBER SW07300014, SW07300015, SW07300045, AGENCY INTEREST ID
NO. 3059**

The subject report for the fourth quarter calendar year (CY) 2025 has been uploaded to the Kentucky eForms portal via the Kentucky Online Gateway. Other recipients outside the Solid Waste Branch are receiving this document via email distribution (see distribution list). This report is required in accordance with Permit Condition ACTV0006, Special Condition Number 3, of Solid Waste Landfill Permit Number SW07300014, SW07300015, SW07300045 (Permit). This report includes groundwater analytical data, a validation summary, groundwater flow rate and direction determination, figures depicting well locations, and methane monitoring results.

The statistical analyses on the fourth quarter CY 2025 monitoring well data collected from the C-746-U Landfill were performed in accordance with Monitoring Condition GSTR0001, Standard Requirement 3, using the U.S. Environmental Protection Agency guidance document, *Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance* (1989).

A statistically significant difference was indicated for dissolved oxygen in MW366. This statistical difference was indicated by an increasing Mann-Kendall trend above the upper tolerance limit, which is considered a Type 2 Exceedance—Source Unknown. Continued evaluation of dissolved oxygen levels through future quarterly monitoring events is recommended. This report also serves as the statistical exceedance notification for the

fourth quarter CY 2025, in accordance with Monitoring Condition GSTR0001, Standard Requirement 5, of the Permit.

If you have any questions or require additional information, please contact Scott McIntyre at (270) 556-6025.

Sincerely,

APRIL LADD Digitally signed by APRIL LADD
Date: 2026.02.18 12:35:58
-06'00'

April Ladd
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Portsmouth/Paducah Project Office

Enclosure:

*C-746-U Contained Landfill Fourth Quarter Calendar Year 2025 (October–December)
Compliance Monitoring Report, Paducah Gaseous Diffusion Plant, Paducah, Kentucky,
FRNP-RPT-0387/V4*

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**C-746-U Contained Landfill
Fourth Quarter Calendar Year 2025
(October–December)
Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**



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**C-746-U Contained Landfill
Fourth Quarter Calendar Year 2025
(October–December)
Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant,
Paducah, Kentucky**

Date Issued—February 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

CCV	continuing calibration verification
CFR	<i>Code of Federal Regulations</i>
KAR	<i>Kentucky Administrative Regulations</i>
KDWM	Kentucky Division of Waste Management
KRS	<i>Kentucky Revised Statutes</i>
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 Fourth Quarter Calendar Year 2025 (October–December) 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: 9 UCRS wells, 6 URGA wells, and 6 LRGA wells. A map of the MW locations is presented in Figure 1. All MWs were sampled this quarter, with the exception of MW359, 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.

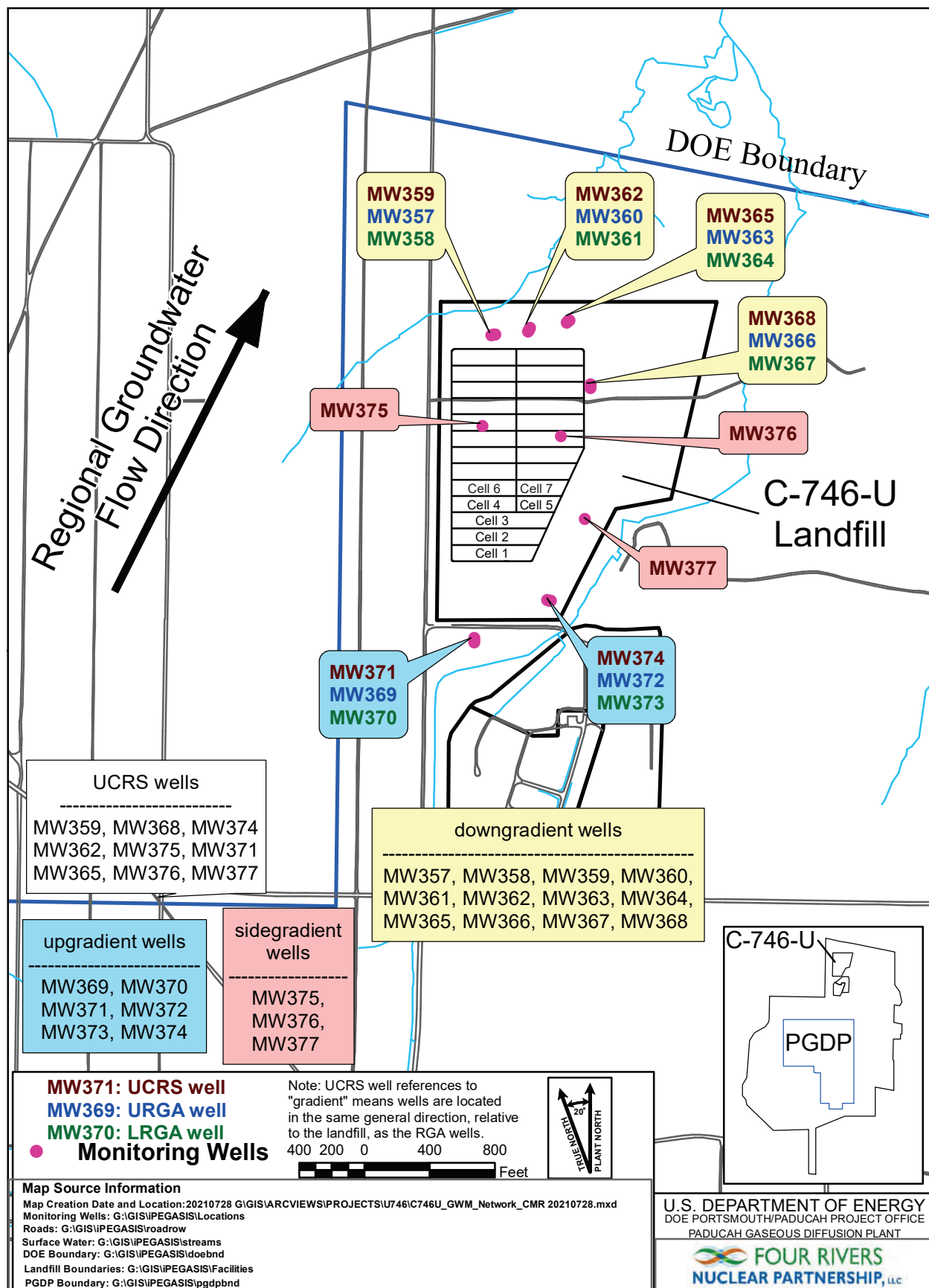


Figure 1. C-746-U Landfill Groundwater Monitoring Well Network

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 fourth quarter 2025 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 fourth quarter 2025 was conducted on October 9–14, 2025, and October 29, 2025. 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 October 14, 2025, 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 October 2025 was 5.87×10^{-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 9.29×10^{-4} ft/ft and 9.85×10^{-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 1.58 to 2.69 ft/day for the URGA and 1.68 to 2.86 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 October 1, 2025. 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 on October 7, 2025, at three locations monitored for the C-746-U Contained Landfill: (1) instream location L154, (2) downstream location L351, and (3) instream location L150 (Figure 2). 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 UTL¹ during the fourth quarter 2025, as well as parameters that exceeded their MCL and also exceeded their historical background UTL. 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.

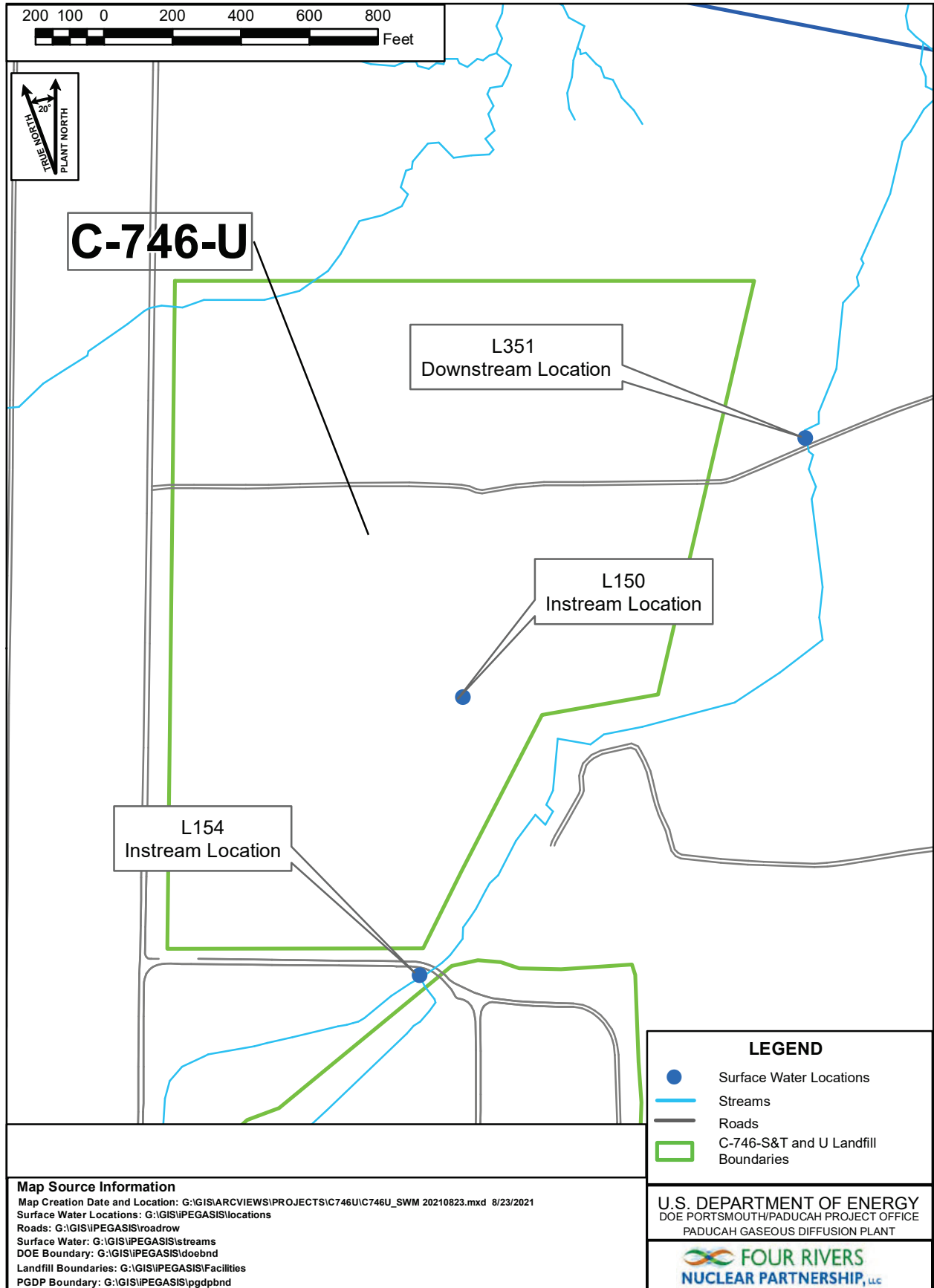


Figure 2. C-746-U Landfill Surface Water Monitoring Locations

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: Dissolved oxygen and 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
MW368: Oxidation-reduction potential ^b and sulfate	MW363: Oxidation-reduction potential ^b	MW364: Dissolved oxygen, oxidation-reduction potential, ^b and technetium-99
MW371: Dissolved oxygen and oxidation-reduction potential ^b	MW366: Dissolved oxygen, oxidation-reduction potential, ^b and technetium-99	MW367: Dissolved oxygen and oxidation-reduction potential ^b
MW374: Oxidation-reduction potential ^b and sulfate	MW369: Oxidation-reduction potential ^b and technetium-99	MW370: Dissolved oxygen and oxidation-reduction potential ^b
MW375: Oxidation-reduction potential ^b and sulfate	MW372: Calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential, ^b sulfate, and technetium-99	MW373: Calcium, conductivity, 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 and dissolved oxygen in URGA well MW366 and LRGA well MW367, 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
MW366: Dissolved Oxygen	MW361: Technetium-99
	MW364: Technetium-99
	MW367: Dissolved Oxygen

Technetium-99 in downgradient LRGA wells MW361 and MW364, as well as dissolved oxygen in downgradient URGA well MW366 and LRGA well MW367, 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, the parameters 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. With the exception of dissolved oxygen in MW366, no trend was indicated for any of the aforementioned preliminary Type 2 exceedances in wells MW361, MW364, and MW367, and are thus considered to be Type 1 exceedances—not attributable to the C-746-U Landfill. The dissolved oxygen

level in MW366 was above the UTL and the Mann-Kendall trend analysis showed an increasing trend, which indicated a statistically significant difference as compared to background dissolved oxygen levels; and is thereby considered to be a Type 2 exceedance—source unknown.

**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	0.548	0	No trend
	MW364	Technetium-99	8	0.05	0.360	-4	No trend
	MW366	Dissolved Oxygen	8	0.05	0.031	16	Increasing
	MW367	Dissolved Oxygen	8	0.05	0.452	2	No trend

^a An alpha of 0.05 represents a 95% confidence interval.

^b The p-value represents the risk of acceptance 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 H₀ and H_a. H₀ 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 sulfate in MW365 and MW368 (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 and MW368: Sulfate

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

With the exception of dissolved oxygen in MW366, 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. The increasing Mann-Kendall trend for dissolved oxygen in MW366 indicates a Type 2 exceedance—source unknown.

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2. DATA EVALUATION/STATISTICAL SYNOPSIS

The statistical analyses conducted on the fourth quarter 2025 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 (or decreasing trend for pH) 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).

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	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, 27 parameters, including those with MCLs, required statistical analysis in the UCRS. During the fourth quarter, dissolved oxygen, oxidation-reduction potential, and sulfate displayed concentrations that exceeded their respective historical UTL and are listed in Table 2. A current background UTL exceedance for sulfate was observed in downgradient UCRS wells MW365 and MW368, 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 fourth quarter, calcium, conductivity, dissolved oxygen, dissolved solids, magnesium, oxidation-reduction potential, sulfate, and technetium-99 displayed concentrations that exceeded their respective historical UTL and are listed in Table 2. Dissolved oxygen exceeded the current background UTL in downgradient URGA well MW366 in the fourth quarter and is listed on Table 3.

2.1.3 Lower Regional Gravel Aquifer

In this quarter, 26 parameters, including those with MCLs, required statistical analysis in the LRGA. During the fourth quarter, calcium, conductivity, dissolved oxygen, oxidation-reduction potential, 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, and dissolved oxygen exceeded the current background UTL in downgradient LRGA well MW367 (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.

Field quality control samples are collected 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. With the exception of acrolein in 15 samples, data verification and validation results for this data set indicated that all data were considered usable.

The percent difference for acrolein in the continuing calibration verification (CCV) exceeded the acceptance criteria with a positive bias in some analytical batches. Consequently, the affected data was qualified with an “R” validation code (rejected) by the data validator. All of the associated acrolein results were nondetects and a review of the C-746-U Contained Landfill groundwater historical acrolein data found that acrolein has not been detected for at least the last five years. Based on the high bias from the CCV for reported nondetect results and the historical nondetect acrolein results, the current results (fourth quarter 2025) were considered representative and usable for the statistical analysis. Validation codes are shown on the data report in Appendix C.

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3. PROFESSIONAL GEOLOGIST AUTHORIZATION

DOCUMENT IDENTIFICATION: *C-746-U Contained Landfill Fourth Quarter Calendar
Year 2025 (October–December) Compliance Monitoring Report,
Paducah Gaseous Diffusion Plant, Paducah, Kentucky
(FRNP-RPT-0387/V4)*

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



Kenneth R. Davis
Kenneth R. Davis

PG113927

PG113927
KD 02-16-2026

February 16, 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 Activity: C-746-U Contained Landfill
(As officially shown on DWM Permit Face)

Permit No: SW07300014, Finds/Unit No: _____ Quarter & Year 4th Qtr. CY 2025
SW07300015,
SW07300045

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 Statutes 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.

DAVID RUCKSTUHL  Digitally signed by DAVID
RUCKSTUHL (Affiliate)
(Affiliate) Date: 2026.02.17 12:00:40
-06'00'

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

APRIL LADD  Digitally signed by APRIL
LADD
Date: 2026.02.18 12:37:59
-06'00'

April Ladd, Paducah Site Lead/Date
U.S. Department of Energy

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APPENDIX B
FACILITY INFORMATION SHEET

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FACILITY INFORMATION SHEET

Groundwater: October 2025
Surface water: October 2025
Methane: October 2025

Sampling Date: _____ 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 Kevil, Kentucky 42053
Street City/State Zip

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

OWNER INFORMATION

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

Contact Person: Myrna E. Redfield Phone No: (270) 441-5113
Program Manager/Chief Executive Officer

Contact Person Title: Four Rivers Nuclear Partnership, LLC

Mailing Address: 5511 Hobbs Road Kevil, Kentucky 42053
Street City/State 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 Kevil, Kentucky 42053
Street City/State 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 Charleston, South Carolina 29407
Street City/State 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:** 4th Quarter 2025

AKGWA Well Tag #: 8004-4798 **SAMPLE ID:** MW357UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/9/2025			EPA-300.0	=
Bromide		0.334	mg/L	0.2	10/9/2025			SW846-9056A	=
Chloride	JN	30.3	mg/L	250	10/9/2025			SW846-9056A	J
Fluoride	J	0.153	mg/L	4	10/9/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.1	mg/L	10	10/9/2025			SW846-9056A	=
Sulfate		35.1	mg/L	1.6	10/9/2025			SW846-9056A	=
Barometric Pressure Reading		30.38	Inches/Hg		10/9/2025			FS	X
Conductivity		430	µmhos/cm		10/9/2025			FS	X
Depth to Water		45.45	ft		10/9/2025			FS	X
Dissolved Oxygen		4.92	mg/L		10/9/2025			FS	X
Eh (approx)		523	mV		10/9/2025			FS	X
pH		6.09	Std Unit		10/9/2025			FS	X
Temperature		59.8	deg F		10/9/2025			FS	X
Turbidity		5.4	NTU		10/9/2025			FS	X
Aluminum	U	0.05	mg/L	0.05	10/9/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/9/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Barium		0.0774	mg/L	0.004	10/9/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/9/2025			SW846-6020B	=
Boron		0.335	mg/L	0.075	10/9/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Calcium		23.1	mg/L	0.2	10/9/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Copper	J	0.00111	mg/L	0.002	10/9/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/9/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Magnesium		9.85	mg/L	0.03	10/9/2025			SW846-6020B	=
Manganese	J	0.00282	mg/L	0.005	10/9/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Potassium		1.57	mg/L	0.3	10/9/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Sodium		38.8	mg/L	0.25	10/9/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/9/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/9/2025			SW846-6020B	=
Zinc	J	0.00528	mg/L	0.02	10/9/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/9/2025			SW846-7470A	=
Barium, Dissolved		0.08	mg/L	0.004	10/9/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/9/2025			SW846-6020B	UJ
PCB-1016	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1221	U	0.1	ug/L	0.1	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4798 **SAMPLE ID:** MW357UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1242	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1248	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1254	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1260	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1268	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
Radium-226	U	0.195	pCi/L	0.422	10/9/2025	0.288	0.289	AN-1418	=
Radium-228		5.42	pCi/L	4.73	10/9/2025	3.3	3.63	EPA-904.0-M	=
Strontium-90	U	-0.88	pCi/L	4.57	10/9/2025	2.21	2.21	EPA-905.0-M	=
Tritium	U	3.35	pCi/L	244	10/9/2025	136	136	EPA-906.0-M	=
Technetium-99		23.6	pCi/L	19.3	10/9/2025	12.2	12.5	HASL 300, Tc-02-RC M	=
Thorium-230	U	2.33	pCi/L	2.82	10/9/2025	2.04	2.07	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.33	pCi/L	1.93	10/9/2025	0.649	0.65	HASL 300, Th-01-RC M	=
Alpha activity	U	-0.449	pCi/L	8.61	10/9/2025	4.66	4.67	SW846-9310	=
Beta activity		21	pCi/L	10.5	10/9/2025	7.93	8.64	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0188	ug/L	0.0188	10/9/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/9/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW357 DOWN **RGA Type:** URGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4798 **SAMPLE ID:** MW357UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Methylene chloride	J	0.97	ug/L	5	10/9/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/9/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/9/2025			SW846-8260D	UJ
Trichloroethene		1.74	ug/L	1	10/9/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dissolved Solids	*	213	mg/L	10	10/9/2025			EPA-160.1	J
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/9/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/9/2025			SW846-9012B	=
Total Organic Halides (TOX)	B	10.6	ug/L	10	10/9/2025			SW846-9020B	J
Total Organic Carbon (TOC)	J	0.592	mg/L	2	10/9/2025			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:** 4th Quarter 2025

AKGWA Well Tag #: 8004-4799 **SAMPLE ID:** MW358UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/9/2025			EPA-300.0	=
Bromide		0.38	mg/L	0.2	10/9/2025			SW846-9056A	=
Chloride	JN	33.2	mg/L	250	10/9/2025			SW846-9056A	J
Fluoride	J	0.159	mg/L	4	10/9/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.858	mg/L	10	10/9/2025			SW846-9056A	=
Sulfate		51.2	mg/L	2	10/9/2025			SW846-9056A	=
Barometric Pressure Reading		30.38	Inches/Hg		10/9/2025			FS	X
Conductivity		470	µmhos/cm		10/9/2025			FS	X
Depth to Water		45.6	ft		10/9/2025			FS	X
Dissolved Oxygen		4.47	mg/L		10/9/2025			FS	X
Eh (approx)		216	mV		10/9/2025			FS	X
pH		6.22	Std Unit		10/9/2025			FS	X
Temperature		60.3	deg F		10/9/2025			FS	X
Turbidity		6	NTU		10/9/2025			FS	X
Aluminum	U	0.05	mg/L	0.05	10/9/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/9/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Barium		0.0533	mg/L	0.004	10/9/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/9/2025			SW846-6020B	=
Boron		0.414	mg/L	0.075	10/9/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Calcium		28.5	mg/L	0.2	10/9/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	=
Cobalt		0.00245	mg/L	0.001	10/9/2025			SW846-6020B	=
Copper	J	0.000915	mg/L	0.002	10/9/2025			SW846-6020B	=
Iron		0.818	mg/L	0.1	10/9/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Magnesium		13.2	mg/L	0.03	10/9/2025			SW846-6020B	=
Manganese		0.256	mg/L	0.005	10/9/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Nickel		0.0096	mg/L	0.002	10/9/2025			SW846-6020B	=
Potassium		2.19	mg/L	0.3	10/9/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Sodium		35.4	mg/L	0.25	10/9/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/9/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/9/2025			SW846-6020B	=
Zinc	J	0.0051	mg/L	0.02	10/9/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/9/2025			SW846-7470A	=
Barium, Dissolved		0.056	mg/L	0.004	10/9/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/9/2025			SW846-6020B	UJ
PCB-1016	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
PCB-1221	U	0.102	ug/L	0.102	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4799 **SAMPLE ID:** MW358UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
PCB-1242	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
PCB-1248	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
PCB-1254	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
PCB-1260	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
PCB-1268	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.102	ug/L	0.102	10/9/2025			SW846-8082A	=
Radium-226	U	0.38	pCi/L	0.556	10/9/2025	0.386	0.388	AN-1418	=
Radium-228		12.6	pCi/L	4.36	10/9/2025	3.82	5.22	EPA-904.0-M	=
Strontium-90	U	-1.51	pCi/L	3.97	10/9/2025	1.75	1.75	EPA-905.0-M	=
Tritium	U	-147	pCi/L	248	10/9/2025	126	126	EPA-906.0-M	UJ
Technetium-99		26.6	pCi/L	18	10/9/2025	11.7	12.1	HASL 300, Tc-02-RC M	=
Thorium-230	U	2.26	pCi/L	2.34	10/9/2025	1.81	1.84	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.216	pCi/L	1.58	10/9/2025	0.559	0.56	HASL 300, Th-01-RC M	=
Alpha activity	U	0.0478	pCi/L	10.1	10/9/2025	4.6	4.6	SW846-9310	=
Beta activity		17.3	pCi/L	15.3	10/9/2025	9.85	10.3	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/9/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/9/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW358 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4799 **SAMPLE ID:** MW358UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Methylene chloride	J	1	ug/L	5	10/9/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/9/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/9/2025			SW846-8260D	UJ
Trichloroethene	J	0.65	ug/L	1	10/9/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dissolved Solids		258	mg/L	10	10/9/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/9/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/9/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/9/2025			SW846-9020B	=
Total Organic Carbon (TOC)		2.38	mg/L	2	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4800 **SAMPLE ID:** MW360UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/9/2025			EPA-300.0	=
Bromide	J	0.141	mg/L	0.2	10/9/2025			SW846-9056A	=
Chloride	JN	5.74	mg/L	250	10/9/2025			SW846-9056A	J
Fluoride	J	0.195	mg/L	4	10/9/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.695	mg/L	10	10/9/2025			SW846-9056A	=
Sulfate		10.3	mg/L	0.4	10/9/2025			SW846-9056A	=
Barometric Pressure Reading		30.35	Inches/Hg		10/9/2025			FS	X
Conductivity		389	µmhos/cm		10/9/2025			FS	X
Depth to Water		38.74	ft		10/9/2025			FS	X
Dissolved Oxygen		2.72	mg/L		10/9/2025			FS	X
Eh (approx)		430	mV		10/9/2025			FS	X
pH		6.12	Std Unit		10/9/2025			FS	X
Temperature		56.8	deg F		10/9/2025			FS	X
Turbidity		6.1	NTU		10/9/2025			FS	X
Aluminum	J	0.0405	mg/L	0.05	10/9/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/9/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Barium		0.187	mg/L	0.004	10/9/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/9/2025			SW846-6020B	=
Boron		0.0215	mg/L	0.015	10/9/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Calcium		17.6	mg/L	0.2	10/9/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	=
Cobalt	J	0.000538	mg/L	0.001	10/9/2025			SW846-6020B	=
Copper		0.00228	mg/L	0.002	10/9/2025			SW846-6020B	=
Iron	J	0.0574	mg/L	0.1	10/9/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Magnesium		7.31	mg/L	0.03	10/9/2025			SW846-6020B	=
Manganese		0.0053	mg/L	0.005	10/9/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Nickel	J	0.00111	mg/L	0.002	10/9/2025			SW846-6020B	=
Potassium		0.697	mg/L	0.3	10/9/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Selenium	J	0.00208	mg/L	0.005	10/9/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Sodium		39.2	mg/L	2.5	10/9/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/9/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/9/2025			SW846-6020B	=
Zinc	J	0.00491	mg/L	0.02	10/9/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/9/2025			SW846-7470A	=
Barium, Dissolved		0.189	mg/L	0.004	10/9/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	UJ
Uranium, Dissolved	J	0.000093	mg/L	0.0002	10/9/2025			SW846-6020B	UJ
PCB-1016	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1221	U	0.1	ug/L	0.1	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4800 **SAMPLE ID:** MW360UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1242	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1248	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1254	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1260	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
PCB-1268	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.1	ug/L	0.1	10/9/2025			SW846-8082A	=
Radium-226	U	-0.0237	pCi/L	0.823	10/9/2025	0.389	0.389	AN-1418	=
Radium-228	U	4.49	pCi/L	4.87	10/9/2025	3.14	3.39	EPA-904.0-M	=
Strontium-90	U	1.09	pCi/L	2.88	10/9/2025	1.67	1.68	EPA-905.0-M	=
Tritium	U	-11.4	pCi/L	253	10/9/2025	139	139	EPA-906.0-M	=
Technetium-99	U	-2.25	pCi/L	18	10/9/2025	9.98	9.98	HASL 300, Tc-02-RC M	=
Thorium-230	U	1.18	pCi/L	2.59	10/9/2025	1.59	1.6	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.0427	pCi/L	0.99	10/9/2025	0.465	0.465	HASL 300, Th-01-RC M	=
Alpha activity	U	0.417	pCi/L	10.2	10/9/2025	4.77	4.77	SW846-9310	=
Beta activity	U	-0.756	pCi/L	7.61	10/9/2025	3.73	3.73	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0191	ug/L	0.0191	10/9/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/9/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW360 DOWN **RGA Type:** URGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4800 **SAMPLE ID:** MW360UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Methylene chloride	J	1.29	ug/L	5	10/9/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/9/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/9/2025			SW846-8260D	UJ
Trichloroethene	J	0.36	ug/L	1	10/9/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dissolved Solids		209	mg/L	10	10/9/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/9/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/9/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	3.52	ug/L	10	10/9/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.06	mg/L	2	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/9/2025			EPA-300.0	=
Bromide		0.454	mg/L	0.2	10/9/2025			SW846-9056A	=
Chloride	JN	37.2	mg/L	250	10/9/2025			SW846-9056A	J
Fluoride	J	0.152	mg/L	4	10/9/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.14	mg/L	10	10/9/2025			SW846-9056A	=
Sulfate		75.9	mg/L	2	10/9/2025			SW846-9056A	=
Barometric Pressure Reading		30.35	Inches/Hg		10/9/2025			FS	X
Conductivity		481	µmhos/cm		10/9/2025			FS	X
Depth to Water		37.99	ft		10/9/2025			FS	X
Dissolved Oxygen		4.9	mg/L		10/9/2025			FS	X
Eh (approx)		536	mV		10/9/2025			FS	X
pH		5.97	Std Unit		10/9/2025			FS	X
Temperature		57.5	deg F		10/9/2025			FS	X
Turbidity		4.35	NTU		10/9/2025			FS	X
Aluminum	U	0.05	mg/L	0.05	10/9/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/9/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Barium		0.0533	mg/L	0.004	10/9/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/9/2025			SW846-6020B	=
Boron		0.2	mg/L	0.075	10/9/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Calcium		31.5	mg/L	0.2	10/9/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Copper	J	0.00169	mg/L	0.002	10/9/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/9/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Magnesium		14.4	mg/L	0.03	10/9/2025			SW846-6020B	=
Manganese	J	0.00179	mg/L	0.005	10/9/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Potassium		2.28	mg/L	0.3	10/9/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Sodium		41.3	mg/L	0.25	10/9/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/9/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/9/2025			SW846-6020B	=
Zinc	J	0.00504	mg/L	0.02	10/9/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/9/2025			SW846-7470A	=
Barium, Dissolved		0.0566	mg/L	0.004	10/9/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	UJ
Uranium, Dissolved	J	0.000115	mg/L	0.0002	10/9/2025			SW846-6020B	J
PCB-1016	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
PCB-1221	U	0.103	ug/L	0.103	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
PCB-1242	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
PCB-1248	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
PCB-1254	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
PCB-1260	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
PCB-1268	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.103	ug/L	0.103	10/9/2025			SW846-8082A	=
Radium-226	U	0.366	pCi/L	0.378	10/9/2025	0.323	0.325	AN-1418	=
Radium-228	U	3.8	pCi/L	4.75	10/9/2025	2.97	3.16	EPA-904.0-M	=
Strontium-90	U	-1.23	pCi/L	2.46	10/9/2025	0.994	0.995	EPA-905.0-M	UJ
Tritium	U	-54.9	pCi/L	250	10/9/2025	134	134	EPA-906.0-M	=
Technetium-99		47.7	pCi/L	18.3	10/9/2025	12.9	14	HASL 300, Tc-02-RC M	=
Thorium-230	U	2.86	pCi/L	2.87	10/9/2025	2.25	2.29	HASL 300, Th-01-RC M	=
Thorium-232	U	0.488	pCi/L	1.56	10/9/2025	1.04	1.05	HASL 300, Th-01-RC M	=
Alpha activity	U	-1.28	pCi/L	8.97	10/9/2025	4.48	4.49	SW846-9310	=
Beta activity		15.9	pCi/L	10.7	10/9/2025	7.51	7.95	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0192	ug/L	0.0192	10/9/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/9/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW361 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4795 **SAMPLE ID:** MW361UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Methylene chloride	J	1.38	ug/L	5	10/9/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/9/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/9/2025			SW846-8260D	UJ
Trichloroethene	J	0.47	ug/L	1	10/9/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dissolved Solids		284	mg/L	10	10/9/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/9/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/9/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/9/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.629	mg/L	2	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0986 **SAMPLE ID:** MW362UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/9/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/9/2025			SW846-9056A	=
Chloride	JN	1.61	mg/L	250	10/9/2025			SW846-9056A	J
Fluoride	J	0.466	mg/L	4	10/9/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.268	mg/L	10	10/9/2025			SW846-9056A	=
Sulfate		33	mg/L	0.8	10/9/2025			SW846-9056A	=
Barometric Pressure Reading		30.36	Inches/Hg		10/9/2025			FS	X
Conductivity		640	µmhos/cm		10/9/2025			FS	X
Depth to Water		24.18	ft		10/9/2025			FS	X
Dissolved Oxygen		4	mg/L		10/9/2025			FS	X
Eh (approx)		481	mV		10/9/2025			FS	X
pH		6.85	Std Unit		10/9/2025			FS	X
Temperature		58.2	deg F		10/9/2025			FS	X
Turbidity		8.77	NTU		10/9/2025			FS	X
Aluminum		0.132	mg/L	0.05	10/9/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/9/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Barium		0.088	mg/L	0.004	10/9/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/9/2025			SW846-6020B	=
Boron		0.0249	mg/L	0.015	10/9/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Calcium		18	mg/L	0.2	10/9/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Copper	J	0.00117	mg/L	0.002	10/9/2025			SW846-6020B	=
Iron	J	0.0973	mg/L	0.1	10/9/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Magnesium		7.67	mg/L	0.03	10/9/2025			SW846-6020B	=
Manganese		0.0101	mg/L	0.005	10/9/2025			SW846-6020B	=
Molybdenum	J	0.000807	mg/L	0.001	10/9/2025			SW846-6020B	=
Nickel	J	0.000704	mg/L	0.002	10/9/2025			SW846-6020B	=
Potassium		0.311	mg/L	0.3	10/9/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/9/2025			SW846-6020B	=
Sodium		112	mg/L	2.5	10/9/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/9/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/9/2025			SW846-6020B	=
Uranium		0.00204	mg/L	0.0002	10/9/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/9/2025			SW846-6020B	=
Zinc	J	0.00469	mg/L	0.02	10/9/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/9/2025			SW846-7470A	=
Barium, Dissolved		0.0881	mg/L	0.004	10/9/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/9/2025			SW846-6020B	UJ
Uranium, Dissolved		0.00218	mg/L	0.0002	10/9/2025			SW846-6020B	J
PCB-1016	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
PCB-1221	U	0.101	ug/L	0.101	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0986 **SAMPLE ID:** MW362UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
PCB-1242	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
PCB-1248	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
PCB-1254	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
PCB-1260	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
PCB-1268	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.101	ug/L	0.101	10/9/2025			SW846-8082A	=
Radium-226	U	0.256	pCi/L	0.507	10/9/2025	0.338	0.339	AN-1418	=
Radium-228		8.14	pCi/L	4.08	10/9/2025	3.25	3.98	EPA-904.0-M	=
Strontium-90	U	-2.07	pCi/L	3.49	10/9/2025	1.67	1.67	EPA-905.0-M	UJ
Tritium	U	-100	pCi/L	251	10/9/2025	131	131	EPA-906.0-M	=
Technetium-99	U	-2.7	pCi/L	18.7	10/9/2025	10.4	10.4	HASL 300, Tc-02-RC M	=
Thorium-230	U	2.15	pCi/L	2.94	10/9/2025	2.19	2.22	HASL 300, Th-01-RC M	=
Thorium-232	U	0.341	pCi/L	2.48	10/9/2025	1.31	1.31	HASL 300, Th-01-RC M	=
Alpha activity	U	1.74	pCi/L	9.84	10/9/2025	4.99	5	SW846-9310	=
Beta activity	U	0.625	pCi/L	9.03	10/9/2025	4.9	4.9	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/9/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/9/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW362 DOWN **RGA Type:** UCRS **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0986 **SAMPLE ID:** MW362UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Methylene chloride	J	1.62	ug/L	5	10/9/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/9/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/9/2025			SW846-8260D	UJ
Trichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dissolved Solids		380	mg/L	10	10/9/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/9/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/9/2025			SW846-9012B	=
Total Organic Halides (TOX)		11.6	ug/L	10	10/9/2025			SW846-9020B	=
Total Organic Carbon (TOC)		2.1	mg/L	2	10/9/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	17.8	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.165	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	J	3.24	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		27.1	mg/L	2	10/13/2025			SW846-9056A	=
Barometric Pressure Reading		29.99	Inches/Hg		10/13/2025			FS	X
Conductivity		357	µmhos/cm		10/13/2025			FS	X
Depth to Water		45.1	ft		10/13/2025			FS	X
Dissolved Oxygen		2.86	mg/L		10/13/2025			FS	X
Eh (approx)		494	mV		10/13/2025			FS	X
pH		6.14	Std Unit		10/13/2025			FS	X
Temperature		59.8	deg F		10/13/2025			FS	X
Turbidity		4.78	NTU		10/13/2025			FS	X
Aluminum	U	0.05	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.113	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron		0.0262	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		20.1	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt	J	0.000616	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.00177	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		7.89	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese		0.0738	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel		0.014	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium		2.04	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		36.1	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.00581	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.111	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	UJ
PCB-1016	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	=
PCB-1221	U	0.0951	ug/L	0.0951	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	=
PCB-1242	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	=
PCB-1248	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	=
PCB-1254	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	=
PCB-1260	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0951	ug/L	0.0951	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.189	pCi/L	0.494	10/13/2025	0.306	0.307	AN-1418	=
Radium-228	U	1.55	pCi/L	4.88	10/13/2025	2.79	2.82	EPA-904.0-M	=
Strontium-90	U	1.49	pCi/L	4.73	10/13/2025	2.69	2.7	EPA-905.0-M	=
Tritium	U	24.5	pCi/L	283	10/13/2025	159	159	EPA-906.0-M	=
Technetium-99	U	1.91	pCi/L	12.5	10/13/2025	7.06	7.06	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.419	pCi/L	1.47	10/13/2025	0.849	0.855	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.146	pCi/L	1.09	10/13/2025	0.376	0.377	HASL 300, Th-01-RC M	=
Alpha activity	U	0.814	pCi/L	7.84	10/13/2025	3.62	3.63	SW846-9310	=
Beta activity	U	4.24	pCi/L	7.21	10/13/2025	4.46	4.52	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/13/2025			SW846-8011	=
Dissolved Solids	*	195	mg/L	10	10/13/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	8.9	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.09	mg/L	2	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG1-26R **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Barometric Pressure Reading		29.65	Inches/Hg		10/29/2025			FS	X
Conductivity		346	µmhos/cm		10/29/2025			FS	X
Depth to Water		45.17	ft		10/29/2025			FS	X
Dissolved Oxygen		3.4	mg/L		10/29/2025			FS	X
Eh (approx)		467	mV		10/29/2025			FS	X
pH		6.23	Std Unit		10/29/2025			FS	X
Temperature		57.6	deg F		10/29/2025			FS	X
Turbidity		6.48	NTU		10/29/2025			FS	X
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrolein	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/29/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW363 DOWN **RGA Type:** URGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4796 **SAMPLE ID:** MW363UG1-26R **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Total Xylene	U	3	ug/L	3	10/29/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW364 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4797 **SAMPLE ID:** MW364UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide		0.467	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	36.8	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.134	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.14	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		67.2	mg/L	2	10/13/2025			SW846-9056A	=
Barometric Pressure Reading		30.01	Inches/Hg		10/13/2025			FS	X
Conductivity		468	µmhos/cm		10/13/2025			FS	X
Depth to Water		44.81	ft		10/13/2025			FS	X
Dissolved Oxygen		4.44	mg/L		10/13/2025			FS	X
Eh (approx)		481	mV		10/13/2025			FS	X
pH		6.02	Std Unit		10/13/2025			FS	X
Temperature		60.9	deg F		10/13/2025			FS	X
Turbidity		4.28	NTU		10/13/2025			FS	X
Aluminum	U	0.05	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.0549	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron		0.208	mg/L	0.075	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		32.1	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.00153	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		14	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese	J	0.00287	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium		1.95	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		40.3	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.0197	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.0552	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	UJ
PCB-1016	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	=
PCB-1221	U	0.1	ug/L	0.1	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4797 **SAMPLE ID:** MW364UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	=
PCB-1242	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	=
PCB-1248	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	=
PCB-1254	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	=
PCB-1260	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.1	ug/L	0.1	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.315	pCi/L	0.546	10/13/2025	0.374	0.375	AN-1418	=
Radium-228	U	4.08	pCi/L	4.82	10/13/2025	3.04	3.26	EPA-904.0-M	=
Strontium-90	U	1.44	pCi/L	3.58	10/13/2025	2.07	2.08	EPA-905.0-M	=
Tritium	U	-75.3	pCi/L	282	10/13/2025	150	150	EPA-906.0-M	=
Technetium-99		46.8	pCi/L	12.8	10/13/2025	10.2	11.5	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.201	pCi/L	2.07	10/13/2025	1.04	1.04	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.0667	pCi/L	1.61	10/13/2025	0.677	0.678	HASL 300, Th-01-RC M	=
Alpha activity	U	-0.648	pCi/L	7.01	10/13/2025	2.77	2.77	SW846-9310	=
Beta activity		31	pCi/L	10.7	10/13/2025	8.82	10.1	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/13/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/13/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromodichloromethane	UL	1	ug/L	1	10/13/2025			SW846-8260D	UJ
Bromoform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW364 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4797 **SAMPLE ID:** MW364UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,3-Dichloropropene	UL	1	ug/L	1	10/13/2025			SW846-8260D	UJ
Dibromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Methylene chloride	J	0.66	ug/L	5	10/13/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/13/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Trichloroethene	J	0.54	ug/L	1	10/13/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dissolved Solids	*	244	mg/L	10	10/13/2025			EPA-160.1	J
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.612	mg/L	2	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	1.84	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.263	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.84	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		51.9	mg/L	2	10/13/2025			SW846-9056A	=
Barometric Pressure Reading		30.02	Inches/Hg		10/13/2025			FS	X
Conductivity		421	µmhos/cm		10/13/2025			FS	X
Depth to Water		39.04	ft		10/13/2025			FS	X
Dissolved Oxygen		4.7	mg/L		10/13/2025			FS	X
Eh (approx)		485	mV		10/13/2025			FS	X
pH		6.32	Std Unit		10/13/2025			FS	X
Temperature		61.5	deg F		10/13/2025			FS	X
Turbidity		3.4	NTU		10/13/2025			FS	X
Aluminum	J	0.0223	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.0853	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron	U	0.015	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		17.9	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt		0.0011	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper		0.00241	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		8.05	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese		0.00614	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel		0.00545	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium	J	0.221	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		44.7	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	J	0.000092	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.00572	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.0799	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved	J	0.00008	mg/L	0.0002	10/13/2025			SW846-6020B	J
PCB-1016	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	=
PCB-1221	U	0.0989	ug/L	0.0989	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	=
PCB-1242	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	=
PCB-1248	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	=
PCB-1254	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	=
PCB-1260	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0989	ug/L	0.0989	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.239	pCi/L	0.575	10/13/2025	0.359	0.36	AN-1418	=
Radium-228	U	4.79	pCi/L	4.9	10/13/2025	3.16	3.45	EPA-904.0-M	=
Strontium-90	U	-3.21	pCi/L	6.73	10/13/2025	3.25	3.25	EPA-905.0-M	=
Tritium	U	-9.9	pCi/L	283	10/13/2025	156	156	EPA-906.0-M	=
Technetium-99	U	0.797	pCi/L	13.4	10/13/2025	7.47	7.47	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.0267	pCi/L	1.2	10/13/2025	0.557	0.559	HASL 300, Th-01-RC M	=
Thorium-232	U	0.0505	pCi/L	0.812	10/13/2025	0.401	0.401	HASL 300, Th-01-RC M	=
Alpha activity	U	0.11	pCi/L	7.17	10/13/2025	3.12	3.12	SW846-9310	=
Beta activity	U	1.96	pCi/L	10.1	10/13/2025	5.6	5.61	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/13/2025			SW846-8011	=
Dissolved Solids	*	183	mg/L	10	10/13/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)		14.8	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.42	mg/L	2	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG1-26R **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Barometric Pressure Reading		29.64	Inches/Hg		10/29/2025			FS	X
Conductivity		349	µmhos/cm		10/29/2025			FS	X
Depth to Water		40.49	ft		10/29/2025			FS	X
Dissolved Oxygen		4.58	mg/L		10/29/2025			FS	X
Eh (approx)		477	mV		10/29/2025			FS	X
pH		6.2	Std Unit		10/29/2025			FS	X
Temperature		58.6	deg F		10/29/2025			FS	X
Turbidity		4.5	NTU		10/29/2025			FS	X
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrolein	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/29/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW365 DOWN **RGA Type:** UCRS **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0984 **SAMPLE ID:** MW365UG1-26R **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Total Xylene	U	3	ug/L	3	10/29/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW366 DOWN **RGA Type:** URGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0982 **SAMPLE ID:** MW366UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide		0.504	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	41.6	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.179	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.922	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		51.9	mg/L	2	10/13/2025			SW846-9056A	=
Barometric Pressure Reading		30.05	Inches/Hg		10/13/2025			FS	X
Conductivity		505	µmhos/cm		10/13/2025			FS	X
Depth to Water		45.5	ft		10/13/2025			FS	X
Dissolved Oxygen		6.5	mg/L		10/13/2025			FS	X
Eh (approx)		525	mV		10/13/2025			FS	X
pH		6.09	Std Unit		10/13/2025			FS	X
Temperature		62.8	deg F		10/13/2025			FS	X
Turbidity		3.2	NTU		10/13/2025			FS	X
Aluminum	U	0.05	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.102	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron		0.127	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		34.3	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.00169	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron	J	0.0582	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		14.7	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese		0.00678	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel	J	0.00104	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium		2.05	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	J	0.0022	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		48.3	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.0047	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.0951	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	UJ
PCB-1016	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	=
PCB-1221	U	0.0992	ug/L	0.0992	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0982 **SAMPLE ID:** MW366UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	=
PCB-1242	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	=
PCB-1248	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	=
PCB-1254	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	=
PCB-1260	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0992	ug/L	0.0992	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.215	pCi/L	0.573	10/13/2025	0.348	0.349	AN-1418	=
Radium-228	U	3.87	pCi/L	4.87	10/13/2025	3	3.19	EPA-904.0-M	=
Strontium-90	U	-0.418	pCi/L	4.14	10/13/2025	2.09	2.09	EPA-905.0-M	=
Tritium	U	-55	pCi/L	280	10/13/2025	151	151	EPA-906.0-M	=
Technetium-99		78.2	pCi/L	12.8	10/13/2025	11.9	14.8	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.737	pCi/L	1.53	10/13/2025	0.991	1	HASL 300, Th-01-RC M	=
Thorium-232	U	0.203	pCi/L	1.11	10/13/2025	0.617	0.618	HASL 300, Th-01-RC M	=
Alpha activity	U	-1.07	pCi/L	7.7	10/13/2025	2.93	2.94	SW846-9310	=
Beta activity		44.7	pCi/L	12.5	10/13/2025	10.7	13	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0191	ug/L	0.0191	10/13/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/13/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromodichloromethane	UL	1	ug/L	1	10/13/2025			SW846-8260D	UJ
Bromoform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW366 DOWN **RGA Type:** URGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0982 **SAMPLE ID:** MW366UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,3-Dichloropropene	UL	1	ug/L	1	10/13/2025			SW846-8260D	UJ
Dibromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Methylene chloride	J	0.63	ug/L	5	10/13/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/13/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Trichloroethene	J	0.44	ug/L	1	10/13/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dissolved Solids	*	207	mg/L	10	10/13/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.734	mg/L	2	10/13/2025			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:** 4th Quarter 2025

AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367DUG1-26 **Sample Type:** FR

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	7.97	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.0716	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	U	10	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		21.3	mg/L	1.6	10/13/2025			SW846-9056A	=
Aluminum	U	0.05	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.133	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron		0.0191	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		13.7	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt		0.00765	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.0016	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron		5.6	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		7.24	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese		1.37	mg/L	0.05	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel		0.003	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium		2.88	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		16.8	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.0156	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.116	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	UJ
PCB-1016	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
PCB-1221	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
PCB-1232	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
PCB-1242	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
PCB-1248	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
PCB-1254	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
PCB-1260	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.105	ug/L	0.105	10/13/2025			SW846-8082A	UJ
Radium-226		0.878	pCi/L	0.511	10/13/2025	0.524	0.531	AN-1418	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367DUG1-26 **Sample Type:** FR

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Radium-228	U	3.15	pCi/L	4.85	10/13/2025	2.95	3.08	EPA-904.0-M	=
Strontium-90	U	-0.917	pCi/L	4.49	10/13/2025	2.29	2.29	EPA-905.0-M	=
Tritium	U	-34.1	pCi/L	281	10/13/2025	153	153	EPA-906.0-M	=
Technetium-99	U	2.27	pCi/L	13	10/13/2025	7.38	7.39	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.948	pCi/L	2.03	10/13/2025	1.3	1.31	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.186	pCi/L	1.43	10/13/2025	0.496	0.497	HASL 300, Th-01-RC M	=
Alpha activity	U	-0.262	pCi/L	5.05	10/13/2025	1.78	1.78	SW846-9310	=
Beta activity	U	3.62	pCi/L	9.32	10/13/2025	5.4	5.43	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0192	ug/L	0.0192	10/13/2025			SW846-8011	=
Dissolved Solids	*	121	mg/L	10	10/13/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.401	mg/L	2	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367DUG1-26 **Sample Type:** FR

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrolein	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/29/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367DUG1-26 **Sample Type:** FR

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	7.96	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.0759	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	U	10	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		20.9	mg/L	1.6	10/13/2025			SW846-9056A	=
Barometric Pressure Reading		30.08	Inches/Hg		10/13/2025			FS	X
Conductivity		248	µmhos/cm		10/13/2025			FS	X
Depth to Water		45.71	ft		10/13/2025			FS	X
Dissolved Oxygen		2.7	mg/L		10/13/2025			FS	X
Eh (approx)		284	mV		10/13/2025			FS	X
pH		5.94	Std Unit		10/13/2025			FS	X
Temperature		64.8	deg F		10/13/2025			FS	X
Turbidity		9.16	NTU		10/13/2025			FS	X
Aluminum	J	0.0208	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.129	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron		0.0178	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		13.8	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt		0.00729	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.00117	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron		5.76	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		7.28	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese		1.3	mg/L	0.05	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel		0.00282	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium		2.92	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		16.9	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.0153	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.119	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	UJ
PCB-1016	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	=
PCB-1221	U	0.0975	ug/L	0.0975	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	=
PCB-1242	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	=
PCB-1248	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	=
PCB-1254	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	=
PCB-1260	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0975	ug/L	0.0975	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.227	pCi/L	0.606	10/13/2025	0.368	0.368	AN-1418	=
Radium-228		7.77	pCi/L	4.94	10/13/2025	3.48	4.12	EPA-904.0-M	=
Strontium-90	U	-1.84	pCi/L	5.2	10/13/2025	2.62	2.62	EPA-905.0-M	=
Tritium	U	-223	pCi/L	286	10/13/2025	139	140	EPA-906.0-M	UJ
Technetium-99	U	-3.36	pCi/L	13.2	10/13/2025	7.02	7.02	HASL 300, Tc-02-RC M	=
Thorium-230	U	1.12	pCi/L	1.39	10/13/2025	1.06	1.07	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.224	pCi/L	1.21	10/13/2025	0.383	0.383	HASL 300, Th-01-RC M	=
Alpha activity	U	1.27	pCi/L	5.83	10/13/2025	2.93	2.94	SW846-9310	=
Beta activity	U	8.52	pCi/L	9.75	10/13/2025	6.25	6.4	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0191	ug/L	0.0191	10/13/2025			SW846-8011	=
Dissolved Solids	*	142	mg/L	10	10/13/2025			EPA-160.1	J
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.449	mg/L	2	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG1-26R **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Barometric Pressure Reading		29.64	Inches/Hg		10/29/2025			FS	X
Conductivity		251	µmhos/cm		10/29/2025			FS	X
Depth to Water		45.86	ft		10/29/2025			FS	X
Dissolved Oxygen		7.5	mg/L		10/29/2025			FS	X
Eh (approx)		440	mV		10/29/2025			FS	X
pH		6.24	Std Unit		10/29/2025			FS	X
Temperature		59.9	deg F		10/29/2025			FS	X
Turbidity		11.46	NTU		10/29/2025			FS	X
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrolein	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/29/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW367 DOWN **RGA Type:** LRGA **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4793 **SAMPLE ID:** MW367UG1-26R **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Total Xylene	U	3	ug/L	3	10/29/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW368 DOWN **RGA Type:** UCRS **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0983 **SAMPLE ID:** MW368UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/13/2025			SW846-9056A	=
Chloride	JN	1.88	mg/L	250	10/13/2025			SW846-9056A	J
Fluoride	J	0.19	mg/L	4	10/13/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.106	mg/L	10	10/13/2025			SW846-9056A	=
Sulfate		94.8	mg/L	4	10/13/2025			SW846-9056A	=
Barometric Pressure Reading		30.06	Inches/Hg		10/13/2025			FS	X
Conductivity		570	µmhos/cm		10/13/2025			FS	X
Depth to Water		40	ft		10/13/2025			FS	X
Dissolved Oxygen		1.71	mg/L		10/13/2025			FS	X
Eh (approx)		280	mV		10/13/2025			FS	X
pH		6.26	Std Unit		10/13/2025			FS	X
Temperature		63.5	deg F		10/13/2025			FS	X
Turbidity		4.68	NTU		10/13/2025			FS	X
Aluminum		0.48	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	J	0.00263	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium		0.0672	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron	U	0.015	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium		52.7	mg/L	2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.000883	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron		0.276	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium		13	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese		0.00856	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	J	0.000551	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel	J	0.000793	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium		0.438	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium		56.9	mg/L	2.5	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium		0.000296	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	J	0.00403	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	BJ	0.00483	mg/L	0.02	10/13/2025			SW846-6020B	U
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
Barium, Dissolved		0.0666	mg/L	0.004	10/13/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	UJ
Uranium, Dissolved		0.000281	mg/L	0.0002	10/13/2025			SW846-6020B	J
PCB-1016	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=
PCB-1221	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW368 DOWN **RGA Type:** UCRS **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0983 **SAMPLE ID:** MW368UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=
PCB-1242	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=
PCB-1248	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=
PCB-1254	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=
PCB-1260	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.104	ug/L	0.104	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.00542	pCi/L	0.547	10/13/2025	0.249	0.249	AN-1418	=
Radium-228		4.95	pCi/L	4.85	10/13/2025	3.05	3.35	EPA-904.0-M	=
Strontium-90	U	2.77	pCi/L	5.38	10/13/2025	3.2	3.22	EPA-905.0-M	=
Tritium	U	6.19	pCi/L	276	10/13/2025	154	154	EPA-906.0-M	=
Technetium-99	U	-1.69	pCi/L	13.2	10/13/2025	7.15	7.15	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.946	pCi/L	1.87	10/13/2025	1.21	1.22	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.11	pCi/L	1.51	10/13/2025	0.608	0.609	HASL 300, Th-01-RC M	=
Alpha activity	U	2.32	pCi/L	6.62	10/13/2025	3.68	3.7	SW846-9310	=
Beta activity	U	2.79	pCi/L	10.1	10/13/2025	5.68	5.7	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0194	ug/L	0.0194	10/13/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/13/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromodichloromethane	UL	1	ug/L	1	10/13/2025			SW846-8260D	UJ
Bromoform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW368 DOWN **RGA Type:** UCRS **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0983 **SAMPLE ID:** MW368UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,3-Dichloropropene	UL	1	ug/L	1	10/13/2025			SW846-8260D	UJ
Dibromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Methylene chloride	J	0.73	ug/L	5	10/13/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/13/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dissolved Solids	*	369	mg/L	10	10/13/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	UN	20	mg/L	20	10/13/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/13/2025			SW846-9012B	=
Total Organic Halides (TOX)	U	10	ug/L	10	10/13/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.2	mg/L	2	10/13/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide		0.328	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	28	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.156	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.12	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		8.69	mg/L	0.4	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.18	Inches/Hg		10/14/2025			FS	X
Conductivity		360	µmhos/cm		10/14/2025			FS	X
Depth to Water		39.31	ft		10/14/2025			FS	X
Dissolved Oxygen		4.13	mg/L		10/14/2025			FS	X
Eh (approx)		492	mV		10/14/2025			FS	X
pH		5.98	Std Unit		10/14/2025			FS	X
Temperature		61.4	deg F		10/14/2025			FS	X
Turbidity		8.57	NTU		10/14/2025			FS	X
Aluminum	B	0.185	mg/L	0.05	10/14/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.359	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron		0.0198	mg/L	0.015	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	16.8	mg/L	0.2	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt		0.00584	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.00185	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron		0.239	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		6.46	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese		0.0263	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel		0.00311	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium		0.597	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium	J	0.00276	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		46.5	mg/L	0.25	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.00617	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.355	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	UJ
PCB-1016	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1221	U	0.102	ug/L	0.102	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1242	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1248	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1254	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1260	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.4	pCi/L	0.583	10/14/2025	0.429	0.431	AN-1418	=
Radium-228		6.62	pCi/L	4.85	10/14/2025	3.3	3.78	EPA-904.0-M	UJ
Strontium-90	U	-0.832	pCi/L	3.11	10/14/2025	1.75	1.75	EPA-905.0-M	=
Tritium	U	43.2	pCi/L	138	10/14/2025	77.7	78.1	EPA-906.0-M	=
Technetium-99		72.6	pCi/L	17.4	10/14/2025	13.6	15.9	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.32	pCi/L	1.82	10/14/2025	0.967	0.971	HASL 300, Th-01-RC M	=
Thorium-232	U	0.071	pCi/L	1.03	10/14/2025	0.515	0.515	HASL 300, Th-01-RC M	=
Alpha activity	U	4.36	pCi/L	7.65	10/14/2025	4.8	4.85	SW846-9310	=
Beta activity		36.6	pCi/L	15.3	10/14/2025	11.4	12.8	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0192	ug/L	0.0192	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4820 **SAMPLE ID:** MW369UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene	J	0.95	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	177	mg/L	10	10/14/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	J	11.1	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)		10.6	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.84	mg/L	2	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide		0.512	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	41.1	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.139	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.15	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		19.4	mg/L	0.4	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.2	Inches/Hg		10/14/2025			FS	X
Conductivity		438	µmhos/cm		10/14/2025			FS	X
Depth to Water		40.19	ft		10/14/2025			FS	X
Dissolved Oxygen		5.24	mg/L		10/14/2025			FS	X
Eh (approx)		505	mV		10/14/2025			FS	X
pH		6	Std Unit		10/14/2025			FS	X
Temperature		63	deg F		10/14/2025			FS	X
Turbidity		3.55	NTU		10/14/2025			FS	X
Aluminum	BJ	0.0248	mg/L	0.05	10/14/2025			SW846-6020B	U
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.213	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron		0.0695	mg/L	0.015	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	27	mg/L	0.2	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.00108	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron	J	0.0339	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		11	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium		2.42	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		40.1	mg/L	0.25	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.0048	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.23	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	UJ
PCB-1016	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	=
PCB-1221	U	0.1	ug/L	0.1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	=
PCB-1242	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	=
PCB-1248	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	=
PCB-1254	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	=
PCB-1260	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.1	ug/L	0.1	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.543	pCi/L	0.703	10/14/2025	0.513	0.515	AN-1418	=
Radium-228		5.35	pCi/L	4.77	10/14/2025	3.11	3.46	EPA-904.0-M	UJ
Strontium-90	U	0.577	pCi/L	1.97	10/14/2025	1.15	1.15	EPA-905.0-M	=
Tritium	U	32.3	pCi/L	155	10/14/2025	85.4	85.6	EPA-906.0-M	=
Technetium-99	U	9.9	pCi/L	16.7	10/14/2025	10	10.1	HASL 300, Tc-02-RC M	=
Thorium-230	U	1.03	pCi/L	1.42	10/14/2025	1.01	1.03	HASL 300, Th-01-RC M	=
Thorium-232	U	0.0213	pCi/L	0.973	10/14/2025	0.449	0.449	HASL 300, Th-01-RC M	=
Alpha activity	U	-1.62	pCi/L	8.16	10/14/2025	2.53	2.54	SW846-9310	=
Beta activity	U	6.59	pCi/L	9.3	10/14/2025	5.78	5.88	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4818 **SAMPLE ID:** MW370UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene		1.9	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	185	mg/L	10	10/14/2025			EPA-160.1	J
Chemical Oxygen Demand (COD)	J	11.1	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	7.96	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.827	mg/L	2	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4819 **SAMPLE ID:** MW371UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	3.51	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.205	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	U	10	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		11.1	mg/L	0.4	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.21	Inches/Hg		10/14/2025			FS	X
Conductivity		690	µmhos/cm		10/14/2025			FS	X
Depth to Water		23.65	ft		10/14/2025			FS	X
Dissolved Oxygen		3.33	mg/L		10/14/2025			FS	X
Eh (approx)		502	mV		10/14/2025			FS	X
pH		6.44	Std Unit		10/14/2025			FS	X
Temperature		64.2	deg F		10/14/2025			FS	X
Turbidity		5.55	NTU		10/14/2025			FS	X
Aluminum	BJ	0.0485	mg/L	0.05	10/14/2025			SW846-6020B	U
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.2	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron	U	0.015	mg/L	0.015	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	50.8	mg/L	2	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.00111	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron	J	0.0431	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		18.6	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese	J	0.00217	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	J	0.000302	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel	J	0.00129	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium		0.356	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		83.6	mg/L	2.5	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium		0.00237	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	J	0.00424	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.00644	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.208	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved		0.00216	mg/L	0.0002	10/14/2025			SW846-6020B	J
PCB-1016	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	=
PCB-1221	U	0.0996	ug/L	0.0996	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4819 **SAMPLE ID:** MW371UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	=
PCB-1242	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	=
PCB-1248	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	=
PCB-1254	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	=
PCB-1260	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0996	ug/L	0.0996	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.576	pCi/L	0.693	10/14/2025	0.513	0.516	AN-1418	=
Radium-228		6.44	pCi/L	4.75	10/14/2025	3.22	3.69	EPA-904.0-M	UJ
Strontium-90	U	0.241	pCi/L	6.02	10/14/2025	3.49	3.49	EPA-905.0-M	=
Tritium	U	86.4	pCi/L	137	10/14/2025	84.3	85.9	EPA-906.0-M	=
Technetium-99	U	0.377	pCi/L	17.5	10/14/2025	9.86	9.86	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.175	pCi/L	1.47	10/14/2025	0.749	0.751	HASL 300, Th-01-RC M	=
Thorium-232	U	0.0563	pCi/L	0.874	10/14/2025	0.433	0.433	HASL 300, Th-01-RC M	=
Alpha activity	U	3.04	pCi/L	7.76	10/14/2025	4.43	4.46	SW846-9310	=
Beta activity	U	-0.58	pCi/L	10.4	10/14/2025	5.42	5.43	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone		6.92	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4819 **SAMPLE ID:** MW371UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	392	mg/L	10	10/14/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	J	11.1	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	8.12	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.95	mg/L	2	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide		0.468	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	36.6	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.155	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.38	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		144	mg/L	4	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.24	Inches/Hg		10/14/2025			FS	X
Conductivity		803	µmhos/cm		10/14/2025			FS	X
Depth to Water		34.47	ft		10/14/2025			FS	X
Dissolved Oxygen		1.97	mg/L		10/14/2025			FS	X
Eh (approx)		520	mV		10/14/2025			FS	X
pH		6.12	Std Unit		10/14/2025			FS	X
Temperature		64.3	deg F		10/14/2025			FS	X
Turbidity		3.55	NTU		10/14/2025			FS	X
Aluminum	BJ	0.0255	mg/L	0.05	10/14/2025			SW846-6020B	U
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.0512	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron		1.21	mg/L	0.15	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	63	mg/L	2	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.00102	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron	J	0.079	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		22.5	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese	J	0.00125	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel	J	0.000701	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium		2.09	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium	J	0.00322	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		64.3	mg/L	2.5	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.0104	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.0563	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	UJ
PCB-1016	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	=
PCB-1221	U	0.0992	ug/L	0.0992	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	=
PCB-1242	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	=
PCB-1248	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	=
PCB-1254	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	=
PCB-1260	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0992	ug/L	0.0992	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.217	pCi/L	0.715	10/14/2025	0.413	0.414	AN-1418	=
Radium-228	U	2.8	pCi/L	4.73	10/14/2025	2.85	2.95	EPA-904.0-M	=
Strontium-90	U	-0.801	pCi/L	2.74	10/14/2025	1.48	1.48	EPA-905.0-M	=
Tritium	U	124	pCi/L	137	10/14/2025	90.1	93.2	EPA-906.0-M	=
Technetium-99		67.1	pCi/L	16.6	10/14/2025	12.9	14.9	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.148	pCi/L	2.98	10/14/2025	1.41	1.41	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.411	pCi/L	2.63	10/14/2025	0.844	0.847	HASL 300, Th-01-RC M	=
Alpha activity	U	0.637	pCi/L	6.82	10/14/2025	3.09	3.09	SW846-9310	=
Beta activity		47.8	pCi/L	10.1	10/14/2025	10.1	12.7	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4808 **SAMPLE ID:** MW372UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene	J	0.59	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	449	mg/L	10	10/14/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	J	13.4	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	8.68	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.09	mg/L	2	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide		0.436	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	29.8	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.167	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.609	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		225	mg/L	8	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.24	Inches/Hg		10/14/2025			FS	X
Conductivity		1015	µmhos/cm		10/14/2025			FS	X
Depth to Water		34.78	ft		10/14/2025			FS	X
Dissolved Oxygen		1.9	mg/L		10/14/2025			FS	X
Eh (approx)		481	mV		10/14/2025			FS	X
pH		6.04	Std Unit		10/14/2025			FS	X
Temperature		64.4	deg F		10/14/2025			FS	X
Turbidity		4.04	NTU		10/14/2025			FS	X
Aluminum	BJ	0.0227	mg/L	0.05	10/14/2025			SW846-6020B	U
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.0271	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron		2.5	mg/L	0.3	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	80.4	mg/L	4	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt	J	0.000642	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.00112	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron	J	0.0544	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		29.7	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese		0.0631	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel	J	0.00143	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium		2.79	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		69.2	mg/L	5	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium	J	0.000097	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.00469	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.031	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved	J	0.000091	mg/L	0.0002	10/14/2025			SW846-6020B	J
PCB-1016	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	=
PCB-1221	U	0.101	ug/L	0.101	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	=
PCB-1242	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	=
PCB-1248	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	=
PCB-1254	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	=
PCB-1260	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.101	ug/L	0.101	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.269	pCi/L	0.775	10/14/2025	0.455	0.455	AN-1418	=
Radium-228		7.93	pCi/L	4.77	10/14/2025	3.36	4.02	EPA-904.0-M	UJ
Strontium-90	U	-0.075	pCi/L	2.78	10/14/2025	1.59	1.59	EPA-905.0-M	=
Tritium	U	132	pCi/L	140	10/14/2025	92.2	95.7	EPA-906.0-M	=
Technetium-99	U	0.484	pCi/L	16	10/14/2025	9.04	9.04	HASL 300, Tc-02-RC M	=
Thorium-230	U	0.0681	pCi/L	3.25	10/14/2025	1.48	1.48	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.226	pCi/L	2.35	10/14/2025	0.863	0.866	HASL 300, Th-01-RC M	=
Alpha activity	U	0.705	pCi/L	8.7	10/14/2025	3.85	3.86	SW846-9310	=
Beta activity	U	4.02	pCi/L	7	10/14/2025	4.27	4.33	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0191	ug/L	0.0191	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-4792 **SAMPLE ID:** MW373UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene		2.16	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	618	mg/L	10	10/14/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	J	15.7	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	9.53	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	1.43	mg/L	2	10/14/2025			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:** 4th Quarter 2025

AKGWA Well Tag #: 8004-0990 **SAMPLE ID:** MW374UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide		0.469	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	44.6	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.146	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	J	1.15	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		19.8	mg/L	0.4	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.24	Inches/Hg		10/14/2025			FS	X
Conductivity		703	µmhos/cm		10/14/2025			FS	X
Depth to Water		21.47	ft		10/14/2025			FS	X
Dissolved Oxygen		2.07	mg/L		10/14/2025			FS	X
Eh (approx)		496	mV		10/14/2025			FS	X
pH		6.67	Std Unit		10/14/2025			FS	X
Temperature		68.6	deg F		10/14/2025			FS	X
Turbidity		5.18	NTU		10/14/2025			FS	X
Aluminum	BJ	0.0482	mg/L	0.05	10/14/2025			SW846-6020B	U
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.127	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron		0.0519	mg/L	0.015	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	21.7	mg/L	0.2	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.000668	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron		0.176	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		5.84	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese		0.0924	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium	J	0.297	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium		0.014	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		116	mg/L	5	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium		0.000703	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.00342	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.128	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved		0.00066	mg/L	0.0002	10/14/2025			SW846-6020B	J
PCB-1016	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1221	U	0.102	ug/L	0.102	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0990 **SAMPLE ID:** MW374UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1242	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1248	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1254	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
PCB-1260	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.102	ug/L	0.102	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.611	pCi/L	0.654	10/14/2025	0.51	0.514	AN-1418	=
Radium-228		6.91	pCi/L	4.96	10/14/2025	3.34	3.87	EPA-904.0-M	UJ
Strontium-90	U	-2.06	pCi/L	5.19	10/14/2025	2.92	2.92	EPA-905.0-M	=
Tritium	U	-60.4	pCi/L	142	10/14/2025	61	61	EPA-906.0-M	=
Technetium-99	U	4.79	pCi/L	16.8	10/14/2025	9.78	9.79	HASL 300, Tc-02-RC M	=
Thorium-230	U	1.39	pCi/L	1.46	10/14/2025	1.14	1.16	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.0216	pCi/L	0.668	10/14/2025	0.319	0.32	HASL 300, Th-01-RC M	=
Alpha activity	U	-2.76	pCi/L	9.05	10/14/2025	3.1	3.1	SW846-9310	=
Beta activity	U	1.3	pCi/L	10.2	10/14/2025	5.54	5.54	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0990 **SAMPLE ID:** MW374UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	383	mg/L	10	10/14/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	J	15.7	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)		17.1	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)		2.31	mg/L	2	10/14/2025			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:** 4th Quarter 2025

AKGWA Well Tag #: 8004-0985 **SAMPLE ID:** MW375UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/14/2025			EPA-300.0	=
Bromide	U	0.2	mg/L	0.2	10/14/2025			SW846-9056A	=
Chloride	JN	3.31	mg/L	250	10/14/2025			SW846-9056A	J
Fluoride	J	0.257	mg/L	4	10/14/2025			SW846-9056A	=
Nitrate as Nitrogen	J	0.896	mg/L	10	10/14/2025			SW846-9056A	=
Sulfate		20.9	mg/L	0.8	10/14/2025			SW846-9056A	=
Barometric Pressure Reading		30.21	Inches/Hg		10/14/2025			FS	X
Conductivity		336	µmhos/cm		10/14/2025			FS	X
Depth to Water		37.95	ft		10/14/2025			FS	X
Dissolved Oxygen		1.9	mg/L		10/14/2025			FS	X
Eh (approx)		501	mV		10/14/2025			FS	X
pH		6.4	Std Unit		10/14/2025			FS	X
Temperature		65.1	deg F		10/14/2025			FS	X
Turbidity		3.96	NTU		10/14/2025			FS	X
Aluminum	BJ	0.0404	mg/L	0.05	10/14/2025			SW846-6020B	U
Antimony	U	0.003	mg/L	0.003	10/14/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Barium		0.162	mg/L	0.004	10/14/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/14/2025			SW846-6020B	=
Boron	J	0.0138	mg/L	0.015	10/14/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Calcium	B	13.1	mg/L	0.2	10/14/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Copper	J	0.000746	mg/L	0.002	10/14/2025			SW846-6020B	=
Iron	J	0.0558	mg/L	0.1	10/14/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Magnesium		5.06	mg/L	0.03	10/14/2025			SW846-6020B	=
Manganese	J	0.00193	mg/L	0.005	10/14/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Nickel	J	0.00102	mg/L	0.002	10/14/2025			SW846-6020B	=
Potassium	J	0.254	mg/L	0.3	10/14/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Selenium	J	0.00187	mg/L	0.005	10/14/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/14/2025			SW846-6020B	=
Sodium		50.5	mg/L	2.5	10/14/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/14/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/14/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/14/2025			SW846-6020B	=
Zinc	J	0.0044	mg/L	0.02	10/14/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/14/2025			SW846-7470A	=
Barium, Dissolved		0.163	mg/L	0.004	10/14/2025			SW846-6020B	J
Chromium, Dissolved	U	0.01	mg/L	0.01	10/14/2025			SW846-6020B	UJ
Uranium, Dissolved	U	0.0002	mg/L	0.0002	10/14/2025			SW846-6020B	UJ
PCB-1016	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	=
PCB-1221	U	0.0977	ug/L	0.0977	10/14/2025			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:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0985 **SAMPLE ID:** MW375UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
PCB-1232	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	=
PCB-1242	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	=
PCB-1248	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	=
PCB-1254	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	=
PCB-1260	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	UJ
PCB-1268	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.0977	ug/L	0.0977	10/14/2025			SW846-8082A	UJ
Radium-226	U	0.213	pCi/L	0.701	10/14/2025	0.405	0.406	AN-1418	=
Radium-228		5.76	pCi/L	4.85	10/14/2025	3.21	3.59	EPA-904.0-M	UJ
Strontium-90	U	-2.06	pCi/L	6.37	10/14/2025	3.62	3.62	EPA-905.0-M	=
Tritium	U	65.7	pCi/L	138	10/14/2025	81.2	82.2	EPA-906.0-M	=
Technetium-99	U	-2.89	pCi/L	17.2	10/14/2025	9.46	9.47	HASL 300, Tc-02-RC M	=
Thorium-230	U	1.45	pCi/L	1.87	10/14/2025	1.37	1.39	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.17	pCi/L	1.3	10/14/2025	0.449	0.45	HASL 300, Th-01-RC M	=
Alpha activity	U	1.62	pCi/L	6.62	10/14/2025	3.43	3.44	SW846-9310	=
Beta activity	U	4.33	pCi/L	9.9	10/14/2025	5.8	5.84	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0194	ug/L	0.0194	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: MW375 SIDE **RGA Type:** UCRS **Period:** 4th Quarter 2025
AKGWA Well Tag #: 8004-0985 **SAMPLE ID:** MW375UG1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dissolved Solids	*	194	mg/L	10	10/14/2025			EPA-160.1	=
Chemical Oxygen Demand (COD)	U	20	mg/L	20	10/14/2025			EPA-410.4	=
Cyanide	U	0.2	mg/L	0.2	10/14/2025			SW846-9012B	=
Total Organic Halides (TOX)	J	8.65	ug/L	10	10/14/2025			SW846-9020B	=
Total Organic Carbon (TOC)	J	0.761	mg/L	2	10/14/2025			SW846-9060A	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

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

Sampling Point: QC **Period:** 4th Quarter 2025

AKGWA Well Tag #: N/A **SAMPLE ID:** FB1UG1-26 **Sample Type:** FB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Aluminum	U	0.05	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium	U	0.004	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron	U	0.015	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium	U	0.2	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium	U	0.03	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium	U	0.3	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium	U	0.25	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
PCB-1016	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1221	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1232	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1242	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1248	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1254	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1260	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.23	pCi/L	0.479	10/13/2025	0.321	0.322	AN-1418	=
Radium-228	U	4.74	pCi/L	4.95	10/13/2025	3.21	3.48	EPA-904.0-M	=
Strontium-90	U	-1.66	pCi/L	3.63	10/13/2025	1.53	1.53	EPA-905.0-M	UJ
Tritium	U	-13	pCi/L	282	10/13/2025	155	155	EPA-906.0-M	=
Technetium-99	U	-2.21	pCi/L	13.1	10/13/2025	7.05	7.05	HASL 300, Tc-02-RC M	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** FB1UG1-26 **Sample Type:** FB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Thorium-230	U	1.18	pCi/L	1.47	10/13/2025	1.1	1.11	HASL 300, Th-01-RC M	=
Thorium-232	U	0.105	pCi/L	0.856	10/13/2025	0.473	0.474	HASL 300, Th-01-RC M	=
Alpha activity	U	-0.786	pCi/L	6.51	10/13/2025	2.36	2.36	SW846-9310	=
Beta activity	U	1.07	pCi/L	10.2	10/13/2025	5.54	5.55	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0192	ug/L	0.0192	10/13/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrolein	UY1	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ
cis-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/13/2025			SW846-8260D	UJ
Methylene chloride	J	0.8	ug/L	5	10/13/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** FB1UG1-26 **Sample Type:** FB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Toluene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/13/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

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

Sampling Point: QC **Period:** 4th Quarter 2025

AKGWA Well Tag #: N/A **SAMPLE ID:** RI1UG1-26 **Sample Type:** RI

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Iodide	U	0.5	mg/L	0.5	10/13/2025			EPA-300.0	=
Aluminum	U	0.05	mg/L	0.05	10/13/2025			SW846-6020B	=
Antimony	U	0.003	mg/L	0.003	10/13/2025			SW846-6020B	=
Arsenic	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Barium	U	0.004	mg/L	0.004	10/13/2025			SW846-6020B	=
Beryllium	U	0.0005	mg/L	0.0005	10/13/2025			SW846-6020B	=
Boron	U	0.015	mg/L	0.015	10/13/2025			SW846-6020B	=
Cadmium	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Calcium	U	0.2	mg/L	0.2	10/13/2025			SW846-6020B	=
Chromium	U	0.01	mg/L	0.01	10/13/2025			SW846-6020B	=
Cobalt	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Copper	J	0.00103	mg/L	0.002	10/13/2025			SW846-6020B	=
Iron	U	0.1	mg/L	0.1	10/13/2025			SW846-6020B	=
Lead	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Magnesium	U	0.03	mg/L	0.03	10/13/2025			SW846-6020B	=
Manganese	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Molybdenum	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Nickel	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Potassium	U	0.3	mg/L	0.3	10/13/2025			SW846-6020B	=
Rhodium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Selenium	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Silver	U	0.001	mg/L	0.001	10/13/2025			SW846-6020B	=
Sodium	U	0.25	mg/L	0.25	10/13/2025			SW846-6020B	=
Tantalum	U	0.005	mg/L	0.005	10/13/2025			SW846-6020B	=
Thallium	U	0.002	mg/L	0.002	10/13/2025			SW846-6020B	=
Uranium	U	0.0002	mg/L	0.0002	10/13/2025			SW846-6020B	=
Vanadium	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Zinc	U	0.02	mg/L	0.02	10/13/2025			SW846-6020B	=
Mercury	U	0.0002	mg/L	0.0002	10/13/2025			SW846-7470A	=
PCB-1016	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1221	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1232	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1242	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1248	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1254	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
PCB-1260	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	UJ
PCB-1268	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	=
Polychlorinated biphenyl	U	0.102	ug/L	0.102	10/13/2025			SW846-8082A	UJ
Radium-226	U	0.199	pCi/L	0.588	10/13/2025	0.352	0.353	AN-1418	=
Radium-228	U	2.53	pCi/L	4.89	10/13/2025	2.91	2.99	EPA-904.0-M	=
Strontium-90	U	-0.918	pCi/L	4.11	10/13/2025	1.98	1.98	EPA-905.0-M	=
Tritium	U	-19.9	pCi/L	283	10/13/2025	155	155	EPA-906.0-M	=
Technetium-99	U	1.01	pCi/L	13.1	10/13/2025	7.31	7.31	HASL 300, Tc-02-RC M	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** RI1UG1-26 **Sample Type:** RI

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Thorium-230	U	-0.00296	pCi/L	2.02	10/13/2025	0.935	0.936	HASL 300, Th-01-RC M	=
Thorium-232	U	-0.0697	pCi/L	1.02	10/13/2025	0.415	0.416	HASL 300, Th-01-RC M	=
Alpha activity	U	0.636	pCi/L	5.92	10/13/2025	2.68	2.69	SW846-9310	=
Beta activity	U	3.25	pCi/L	10.5	10/13/2025	5.95	5.98	SW846-9310	=
1,2-Dibromo-3-chloropropane	U	0.0194	ug/L	0.0194	10/13/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrolein	UY1	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ
cis-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/13/2025			SW846-8260D	UJ
Methylene chloride	J	1.1	ug/L	5	10/13/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** RI1UG1-26 **Sample Type:** RI

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Toluene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/13/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** TB1UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
1,2-Dibromo-3-chloropropane	U	0.0191	ug/L	0.0191	10/9/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Acetone	J	3.09	ug/L	5	10/9/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/9/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Methylene chloride	J	1.66	ug/L	5	10/9/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/9/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/9/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** TB1UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/9/2025			SW846-8260D	UJ
Trichloroethene	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/9/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/9/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/9/2025			SW846-8260D	=

Paducah OREIS
GROUNDWATER MONITORING REPORT

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

Sampling Point: QC **Period:** 4th Quarter 2025

AKGWA Well Tag #: N/A **SAMPLE ID:** TB2UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/13/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrolein	UY1	5	ug/L	5	10/13/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ
cis-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/13/2025			SW846-8260D	UJ
Methylene chloride	J	1.01	ug/L	5	10/13/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/13/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/13/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** TB2UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/13/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/13/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/13/2025			SW846-8260D	UJ

Paducah OREIS
GROUNDWATER MONITORING REPORT

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

Sampling Point: QC **Period:** 4th Quarter 2025

AKGWA Well Tag #: N/A **SAMPLE ID:** TB3UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
1,2-Dibromo-3-chloropropane	U	0.019	ug/L	0.019	10/14/2025			SW846-8011	=
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Acrolein	ULY1	5	ug/L	5	10/14/2025			SW846-8260D	R
Acrylonitrile	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/14/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/14/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** TB3UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Trichloroethene	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/14/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/14/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/14/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** TB4UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
1,1,1,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,1-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2,2-Tetrachloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1,2-Trichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,1-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2,3-Trichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dibromoethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,2-Dichloropropane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
1,4-Dichlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
2-Butanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
2-Hexanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
4-Methyl-2-pentanone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acetone	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrolein	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Acrylonitrile	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Benzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromodichloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromoform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Bromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Carbon disulfide	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Carbon tetrachloride	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chlorobenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloroform	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Chloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
cis-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromochloromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Dibromomethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Ethylbenzene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Iodomethane	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Methylene chloride	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Styrene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Tetrachloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Toluene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Total Xylene	U	3	ug/L	3	10/29/2025			SW846-8260D	=
trans-1,2-Dichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,3-Dichloropropene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
trans-1,4-Dichloro-2-butene	U	5	ug/L	5	10/29/2025			SW846-8260D	=

**Paducah OREIS
GROUNDWATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
AKGWA Well Tag #: N/A **SAMPLE ID:** TB4UG1-26 **Sample Type:** TB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Trichloroethene	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Trichlorofluoromethane	U	1	ug/L	1	10/29/2025			SW846-8260D	=
Vinyl acetate	U	5	ug/L	5	10/29/2025			SW846-8260D	=
Vinyl chloride	U	1	ug/L	1	10/29/2025			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

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 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,
Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26
Sample ID: 747180001
Matrix: WG
Collect Date: 09-OCT-25
Receive Date: 10-OCT-25
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	0.195	+/-0.288	0.422	+/-0.289	5.00	pCi/L			JD3	10/29/25	0817	2886151	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	2.33	+/-2.04	2.82	+/-2.07	50.0	pCi/L			JD3	10/27/25	1901	2886153	2
Thorium-232	U	-0.330	+/-0.649	1.93	+/-0.650		pCi/L							

Rad Gas Flow Proportional Counting

904.0Mod, Ra228, Liquid "As Received"

Radium-228		5.42	+/-3.30	4.73	+/-3.63	4.99	pCi/L			ST2	11/21/25	0901	2899131	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.880	+/-2.21	4.57	+/-2.21	8.00	pCi/L			JE1	10/29/25	1645	2879248	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-0.449	+/-4.66	8.61	+/-4.67	15.0	pCi/L			CH7	10/24/25	1228	2879893	5
Beta		21.0	+/-7.93	10.5	+/-8.64	50.0	pCi/L							

Rad Liquid Scintillation Analysis

906.0M, Tritium Dist, Liquid "As Received"

Tritium	U	3.35	+/-136	244	+/-136	300	pCi/L			MG6	10/18/25	1855	2878784	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99		23.6	+/-12.2	19.3	+/-12.5	25.0	pCi/L			BB3	11/04/25	1354	2881341	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"	2886151	96	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2886153	62.4	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2899131	86.7	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2879248	80.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2881341	95.3	(30%-110%)

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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26

Sample ID: 747180001

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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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26

Project: FRNP00714

Sample ID: 747180003

Client ID: FRNP007

Matrix: WG

Collect Date: 09-OCT-25

Receive Date: 10-OCT-25

Collector: Client

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	0.380	+/-0.386	0.556	+/-0.388	5.00	pCi/L			JD3	10/29/25	0818	2886151	1

Th-01-RC M, Th Isotopes, Liquid "As Received"

Thorium-230	U	2.26	+/-1.81	2.34	+/-1.84	50.0	pCi/L			JD3	10/27/25	1901	2886153	2

Thorium-232	U	-0.216	+/-0.559	1.58	+/-0.560		pCi/L							

Rad Gas Flow Proportional Counting

904.0Mod, Ra228, Liquid "As Received"

Radium-228		12.6	+/-3.82	4.36	+/-5.22	4.99	pCi/L			ST2	11/21/25	0901	2899131	3

905.0Mod, Sr90, liquid "As Received"

Strontium-90	U	-1.51	+/-1.75	3.97	+/-1.75	8.00	pCi/L			JE1	10/29/25	1645	2879248	4

9310, Alpha/Beta Activity, liquid "As Received"

Alpha	U	0.0478	+/-4.60	10.1	+/-4.60	15.0	pCi/L			CH7	10/24/25	1228	2879893	5

Beta		17.3	+/-9.85	15.3	+/-10.3	50.0	pCi/L							

Rad Liquid Scintillation Analysis

906.0M, Tritium Dist, Liquid "As Received"

Tritium	U	-147	+/-126	248	+/-126	300	pCi/L			MG6	10/18/25	1932	2878784	6

Tc-02-RC-MOD, Tc99, Liquid "As Received"

Technetium-99		26.6	+/-11.7	18.0	+/-12.1	25.0	pCi/L			BB3	11/04/25	1410	2881341	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"	2886151	101	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2886153	73.1	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2899131	79.7	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2879248	87.4	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2881341	94.4	(30%-110%)

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26

Project: FRNP00714

Sample ID: 747180003

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Company : Four Rivers Nuclear Partnership,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW360UG1-26

Project: FRNP00714

Sample ID: 747180005

Client ID: FRNP007

Matrix: WG

Collect Date: 09-OCT-25

Receive Date: 10-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	-0.0237	+/-0.389	0.823	+/-0.389	5.00	pCi/L			JD3	10/30/25	1215	2886151	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	1.18	+/-1.59	2.59	+/-1.60	50.0	pCi/L			JD3	10/27/25	1901	2886153	2
Thorium-232	U	-0.0427	+/-0.465	0.990	+/-0.465		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	4.49	+/-3.14	4.87	+/-3.39	4.99	pCi/L			ST2	11/18/25	1057	2899131	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	1.09	+/-1.67	2.88	+/-1.68	8.00	pCi/L			JE1	11/03/25	1308	2879248	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	0.417	+/-4.77	10.2	+/-4.77	15.0	pCi/L			CH7	10/24/25	1228	2879893	5
Beta	U	-0.756	+/-3.73	7.61	+/-3.73	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-11.4	+/-139	253	+/-139	300	pCi/L			MG6	10/18/25	2009	2878784	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	-2.25	+/-9.98	18.0	+/-9.98	25.0	pCi/L			BB3	11/04/25	1427	2881341	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"	2886151	96.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2886153	86.9	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2899131	77	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2879248	92	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2881341	93.7	(30%-110%)

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Certificate of Analysis

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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW360UG1-26

Project: FRNP00714

Sample ID: 747180005

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : Four Rivers Nuclear Partnership,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26

Project: FRNP00714

Sample ID: 747180007

Client ID: FRNP007

Matrix: WG

Collect Date: 09-OCT-25

Receive Date: 10-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.366	+/-0.323	0.378	+/-0.325	5.00	pCi/L			JD3	10/29/25	0818	2886151	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	2.86	+/-2.25	2.87	+/-2.29	50.0	pCi/L			JD3	10/28/25	0917	2886153	2
Thorium-232	U	0.488	+/-1.04	1.56	+/-1.05		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	3.80	+/-2.97	4.75	+/-3.16	4.99	pCi/L			ST2	11/18/25	1057	2899131	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-1.23	+/-0.994	2.46	+/-0.995	8.00	pCi/L			JE1	11/01/25	1313	2879248	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-1.28	+/-4.48	8.97	+/-4.49	15.0	pCi/L			CH7	11/06/25	1407	2879893	5
Beta		15.9	+/-7.51	10.7	+/-7.95	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-54.9	+/-134	250	+/-134	300	pCi/L			MG6	10/18/25	2046	2878784	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99		47.7	+/-12.9	18.3	+/-14.0	25.0	pCi/L			BB3	11/04/25	1443	2881341	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"	2886151	99.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2886153	92.1	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2899131	66.1	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2879248	89.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2881341	93.5	(30%-110%)

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26

Project: FRNP00714

Sample ID: 747180007

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

GEL LABORATORIES LLC

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

Certificate of Analysis

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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26

Project: FRNP00714

Sample ID: 747180009

Client ID: FRNP007

Matrix: WG

Collect Date: 09-OCT-25

Receive Date: 10-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.256	+/-0.338	0.507	+/-0.339	5.00	pCi/L			JD3	10/29/25	0818	2886151	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	2.15	+/-2.19	2.94	+/-2.22	50.0	pCi/L			JD3	10/28/25	0917	2886153	2
Thorium-232	U	0.341	+/-1.31	2.48	+/-1.31		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		8.14	+/-3.25	4.08	+/-3.98	4.99	pCi/L			ST2	11/21/25	0901	2899131	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-2.07	+/-1.67	3.49	+/-1.67	8.00	pCi/L			JE1	11/03/25	1308	2879248	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	1.74	+/-4.99	9.84	+/-5.00	15.0	pCi/L			CH7	10/28/25	1401	2879893	5
Beta	U	0.625	+/-4.90	9.03	+/-4.90	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-100	+/-131	251	+/-131	300	pCi/L			MG6	10/18/25	2122	2878784	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	-2.70	+/-10.4	18.7	+/-10.4	25.0	pCi/L			BB3	11/04/25	1500	2881341	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"	2886151	90	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2886153	73.2	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2899131	82.8	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2879248	85.1	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2881341	91.9	(30%-110%)

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26

Project: FRNP00714

Sample ID: 747180009

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26 Project: FRNP00714
Sample ID: 747180001 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 09:22
Receive Date: 10-OCT-25
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	0.00846	0.0188	ug/L	0.940	1	BM1	10/13/25	1348	2878739	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.592	0.330	2.00	mg/L		1	KB3	10/15/25	0015	2880138	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1142	2879306	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	B	10.6	3.33	10.0	ug/L		1	JW2	10/14/25	1457	2879615	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1313	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.334	0.0670	0.200	mg/L		1	CH6	10/10/25	1323	2878533	6
Fluoride	J	0.153	0.0330	4.00	mg/L		1					
Nitrate-N	J	1.10	0.0330	10.0	mg/L		1					
Chloride	JN	30.3	0.268	250	mg/L		4	CH6	10/11/25	0439	2878533	7
Sulfate		35.1	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	JM13	10/23/25	0852	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	10/31/25	1841	2878937	9
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		0.0774	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		23.1	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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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26
Sample ID: 747180001

Project: FRNP00714
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	0.00111	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		9.85	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00282	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		1.57	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		38.8	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00528	0.00330	0.0200	mg/L	1.00	1	BAJ	11/04/25	1311	2878937	10
Boron		0.335	0.0260	0.0750	mg/L	1.00	5	BAJ	11/04/25	1317	2878937	11
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0333	0.100	ug/L	0.00100	1	JXM	10/21/25	1557	2883676	12
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	*	213	2.38	10.0	mg/L			SC1	10/14/25	1619	2879946	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26
Sample ID: 747180001

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JEB	10/16/25	1306	2881523	15
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	ULY1	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	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: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26
Sample ID: 747180001

Project: FRNP00714
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	J	0.970	0.500	5.00	ug/L		1					
Styrene	U	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		1.74	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	LL2	10/13/25	1045	2878737
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2879302
SW846 3005A	ICP-MS 3005A PREP	JB7	10/13/25	1527	2878936
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	10/21/25	0600	2883675

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Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26
Sample ID: 747180001

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3535A/8082A		
13	EPA 160.1		
14	EPA 410.4		
15	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.61 ug/L	6.72	98	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.231 ug/L	0.200	115	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.179 ug/L	0.200	89	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.7 ug/L	50.0	99	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.9 ug/L	50.0	110	(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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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW357UG1-26 Project: FRNP00714
Sample ID: 747180002 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 09:22
Receive Date: 10-OCT-25
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		0.0800	0.000670	0.00400	mg/L	1.00	1	BB2	10/22/25	2040	2878678	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	10/10/25	1300	2878590
SW846 3005A	ICP-MS 3005A PREP	HS2	10/13/25	0830	2878677

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26 Project: FRNP00714
Sample ID: 747180003 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 10:32
Receive Date: 10-OCT-25
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	BM1	10/13/25	1531	2878739	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.38	0.330	2.00	mg/L		1	KB3	10/16/25	2108	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1145	2879306	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	JW2	10/17/25	1343	2882370	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1352	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.380	0.0670	0.200	mg/L		1	CH6	10/10/25	1353	2878533	6
Fluoride	J	0.159	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.858	0.0330	10.0	mg/L		1					
Chloride	JN	33.2	0.335	250	mg/L		5	CH6	10/11/25	0713	2878533	7
Sulfate		51.2	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	JM13	10/23/25	0859	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	10/31/25	1902	2878937	9
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		0.0533	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		28.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00245	0.000300	0.00100	mg/L	1.00	1					

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26
Sample ID: 747180003

Project: FRNP00714
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	0.000915	0.000300	0.00200	mg/L	1.00	1					
Iron		0.818	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		13.2	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.256	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00960	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.19	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		35.4	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00510	0.00330	0.0200	mg/L	1.00	1	BAJ	11/04/25	1326	2878937	10
Boron		0.414	0.0260	0.0750	mg/L	1.00	5	BAJ	11/04/25	1327	2878937	11
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.102	0.0340	0.102	ug/L	0.00102	1	JXM	10/21/25	1655	2883676	12
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		258	2.38	10.0	mg/L			SC1	10/15/25	1718	2880592	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26
Sample ID: 747180003

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JEB	10/16/25	1329	2881523	15
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	ULY1	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	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26
Sample ID: 747180003

Project: FRNP00714
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	J	1.00	0.500	5.00	ug/L		1					
Styrene	U	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	0.650	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	10/21/25	0600	2883675
SW846 8011 PREP	8011 Prep	LL2	10/13/25	1045	2878737
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2879302
SW846 3005A	ICP-MS 3005A PREP	JB7	10/13/25	1527	2878936

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Client Sample ID: MW358UG1-26
Sample ID: 747180003

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3535A/8082A		
13	EPA 160.1		
14	EPA 410.4		
15	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.30 ug/L	6.80	93	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.230 ug/L	0.204	113	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.195 ug/L	0.204	95	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.8 ug/L	50.0	98	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	53.8 ug/L	50.0	108	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.1 ug/L	50.0	100	(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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW358UG1-26 Project: FRNP00714
Sample ID: 747180004 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 10:32
Receive Date: 10-OCT-25
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		0.0560	0.000670	0.00400	mg/L	1.00	1	BB2	10/22/25	2100	2878678	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	10/10/25	1300	2878590
SW846 3005A	ICP-MS 3005A PREP	HS2	10/13/25	0830	2878677

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW360UG1-26 Project: FRNP00714
Sample ID: 747180005 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 06:58
Receive Date: 10-OCT-25
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	0.0191	0.00860	0.0191	ug/L	0.955	1	BM1	10/13/25	1605	2878739	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.06	0.330	2.00	mg/L		1	KB3	10/16/25	2140	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1146	2879306	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	3.52	3.33	10.0	ug/L		1	JW2	10/17/25	1534	2882370	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1430	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide	J	0.141	0.0670	0.200	mg/L		1	CH6	10/10/25	1424	2878533	6
Chloride	JN	5.74	0.0670	250	mg/L		1					
Fluoride	J	0.195	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.695	0.0330	10.0	mg/L		1					
Sulfate		10.3	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	JM13	10/23/25	0900	2884785	7
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	J	0.0405	0.0193	0.0500	mg/L	1.00	1	PRB	10/31/25	1905	2878937	8
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		0.187	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		17.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000538	0.000300	0.00100	mg/L	1.00	1					

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Client Sample ID: MW360UG1-26
Sample ID: 747180005

Project: FRNP00714
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		0.00228	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0574	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.31	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00530	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00111	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.697	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00208	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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					
Boron		0.0215	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1343	2878937	9
Zinc	J	0.00491	0.00330	0.0200	mg/L	1.00	1					
Sodium		39.2	0.800	2.50	mg/L	1.00	10	PRB	11/01/25	2252	2878937	10
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0334	0.100	ug/L	0.00100	1	JXM	10/21/25	1715	2883676	11
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		209	2.38	10.0	mg/L			SC1	10/15/25	1718	2880592	12
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Sample ID: 747180005

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	13
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JEB	10/16/25	1353	2881523	14
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	ULY1	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	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW360UG1-26
Sample ID: 747180005

Project: FRNP00714
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	J	1.29	0.500	5.00	ug/L		1					
Styrene	U	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	0.360	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	10/21/25	0600	2883675
SW846 8011 PREP	8011 Prep	LL2	10/13/25	1045	2878737
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2879302
SW846 3005A	ICP-MS 3005A PREP	JB7	10/13/25	1527	2878936
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781

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Client Sample ID: MW360UG1-26
Sample ID: 747180005

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 7470A		
8	SW846 3005A/6020B		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3535A/8082A		
12	EPA 160.1		
13	EPA 410.4		
14	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.96 ug/L	6.82	102	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.212 ug/L	0.201	105	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.183 ug/L	0.201	91	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.8 ug/L	50.0	100	(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"	50.8 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
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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW360UG1-26 Project: FRNP00714
Sample ID: 747180006 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 06:58
Receive Date: 10-OCT-25
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		0.189	0.000670	0.00400	mg/L	1.00	1	BB2	10/22/25	2103	2878678	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.0000930	0.0000670	0.000200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	10/10/25	1300	2878590
SW846 3005A	ICP-MS 3005A PREP	HS2	10/13/25	0830	2878677

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26 Project: FRNP00714
Sample ID: 747180007 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 07:48
Receive Date: 10-OCT-25
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	BM1	10/13/25	1640	2878739	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.629	0.330	2.00	mg/L		1	KB3	10/16/25	2212	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1147	2879306	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	JW2	10/17/25	1637	2882370	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1443	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.454	0.0670	0.200	mg/L		1	CH6	10/10/25	1455	2878533	6
Fluoride	J	0.152	0.0330	4.00	mg/L		1					
Nitrate-N	J	1.14	0.0330	10.0	mg/L		1					
Chloride	JN	37.2	0.335	250	mg/L		5	CH6	10/11/25	0744	2878533	7
Sulfate		75.9	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	JM13	10/23/25	0902	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	10/31/25	1908	2878937	9
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		0.0533	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		31.5	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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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26
Sample ID: 747180007

Project: FRNP00714
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	0.00169	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	0.00179	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		2.28	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		41.3	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00504	0.00330	0.0200	mg/L	1.00	1	BAJ	11/04/25	1344	2878937	10
Boron		0.200	0.0260	0.0750	mg/L	1.00	5	BAJ	11/04/25	1348	2878937	11
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.103	0.0344	0.103	ug/L	0.00103	1	JXM	10/21/25	1759	2883676	12
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		284	2.38	10.0	mg/L			SC1	10/15/25	1718	2880592	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26
Sample ID: 747180007

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JEB	10/16/25	1417	2881523	15
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	ULY1	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	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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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26
Sample ID: 747180007

Project: FRNP00714
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	J	1.38	0.500	5.00	ug/L		1					
Styrene	U	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	0.470	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)	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 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2879302
SW846 8011 PREP	8011 Prep	LL2	10/13/25	1045	2878737
SW846 3005A	ICP-MS 3005A PREP	JB7	10/13/25	1527	2878936
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	10/21/25	0600	2883675

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Client Sample ID: MW361UG1-26
Sample ID: 747180007

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3535A/8082A		
13	EPA 160.1		
14	EPA 410.4		
15	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.49 ug/L	6.86	109	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.243 ug/L	0.206	118	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.182 ug/L	0.206	88	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.6 ug/L	50.0	95	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.5 ug/L	50.0	103	(81%-118%)
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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW361UG1-26 Project: FRNP00714
Sample ID: 747180008 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 07:48
Receive Date: 10-OCT-25
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		0.0566	0.000670	0.00400	mg/L	1.00	1	BB2	10/22/25	2106	2878678	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.000115	0.0000670	0.000200	mg/L	1.00	1	BB2	10/23/25	0836	2878678	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	10/10/25	1300	2878590
SW846 3005A	ICP-MS 3005A PREP	HS2	10/13/25	0830	2878677

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26 Project: FRNP00714
Sample ID: 747180009 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 08:32
Receive Date: 10-OCT-25
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	0.00853	0.0190	ug/L	0.948	1	BM1	10/13/25	1714	2878739	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.10	0.330	2.00	mg/L		1	KB3	10/16/25	2243	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1148	2879306	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		11.6	3.33	10.0	ug/L		1	JW2	10/17/25	1720	2882370	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1456	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/10/25	1526	2878533	6
Chloride	JN	1.61	0.0670	250	mg/L		1					
Fluoride	J	0.466	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.268	0.0330	10.0	mg/L		1					
Sulfate		33.0	0.266	0.800	mg/L		2	CH6	10/11/25	0815	2878533	7
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	0949	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum		0.132	0.0193	0.0500	mg/L	1.00	1	PRB	10/31/25	1911	2878937	9
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		0.0880	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		18.0	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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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26
Sample ID: 747180009

Project: FRNP00714
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	0.00117	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0973	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.67	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0101	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000807	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.000704	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.311	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium		0.00204	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0249	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1345	2878937	10
Zinc	J	0.00469	0.00330	0.0200	mg/L	1.00	1					
Sodium		112	0.800	2.50	mg/L	1.00	10	PRB	11/01/25	2255	2878937	11
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.101	0.0338	0.101	ug/L	0.00101	1	JXM	10/21/25	1818	2883676	12
Aroclor-1221	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-1232	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-1242	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-1248	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-1254	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-1260	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-1268	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Aroclor-Total	U	0.101	0.0338	0.101	ug/L	0.00101	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids		380	2.38	10.0	mg/L			SC1	10/15/25	1718	2880592	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26
Sample ID: 747180009

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JEB	10/16/25	1441	2881523	15
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	ULY1	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	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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26
Sample ID: 747180009

Project: FRNP00714
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	J	1.62	0.500	5.00	ug/L		1					
Styrene	U	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 3005A	ICP-MS 3005A PREP	JB7	10/13/25	1527	2878936
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2879302
SW846 8011 PREP	8011 Prep	LL2	10/13/25	1045	2878737
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	10/21/25	0600	2883675

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26
Sample ID: 747180009

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3535A/8082A		
13	EPA 160.1		
14	EPA 410.4		
15	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.00 ug/L	6.77	89	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.157 ug/L	0.203	78	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.166 ug/L	0.203	82	(26%-108%)
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"	55.0 ug/L	50.0	110	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.3 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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW362UG1-26 Project: FRNP00714
Sample ID: 747180010 Client ID: FRNP007
Matrix: WG
Collect Date: 09-OCT-25 08:32
Receive Date: 10-OCT-25
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		0.0881	0.000670	0.00400	mg/L	1.00	1	BB2	10/22/25	2109	2878678	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium		0.00218	0.0000670	0.000200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	GF1	10/10/25	1300	2878590
SW846 3005A	ICP-MS 3005A PREP	HS2	10/13/25	0830	2878677

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID:	TB1UG1-26	Project:	FRNP00714
Sample ID:	747180011	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	09-OCT-25 05:50		
Receive Date:	10-OCT-25		
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	0.0191	0.00861	0.0191	ug/L	0.956	1	BM1	10/13/25	1748	2878739	1
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	JEB	10/16/25	1505	2881523	2
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	J	3.09	1.74	5.00	ug/L		1					
Acrolein	ULY1	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	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB1UG1-26
Sample ID: 747180011

Project: FRNP00714
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	J	1.66	0.500	5.00	ug/L		1					
Styrene	U	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	LL2	10/13/25	1045	2878737

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.88 ug/L	6.83	101	(56%-149%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.9 ug/L	50.0	98	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	54.3 ug/L	50.0	109	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	51.5 ug/L	50.0	103	(89%-112%)

Notes:

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB1UG1-26
Sample ID: 747180011

Project: FRNP00714
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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ATTACHMENT C2

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26
Sample ID: 747475001
Matrix: WG
Collect Date: 13-OCT-25
Receive Date: 14-OCT-25
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	0.189	+/-0.306	0.494	+/-0.307	5.00	pCi/L			JD3	11/02/25	1207	2887410	1

Th-01-RC M, Th Isotopes, Liquid "As Received"

Thorium-230	U	0.419	+/-0.849	1.47	+/-0.855	50.0	pCi/L			RM3	11/02/25	1214	2887404	2

Thorium-232	U	-0.146	+/-0.376	1.09	+/-0.377		pCi/L							

Rad Gas Flow Proportional Counting

904.0Mod, Ra228, Liquid "As Received"

Radium-228	U	1.55	+/-2.79	4.88	+/-2.82	4.99	pCi/L			DH1	11/10/25	1013	2895144	3

905.0Mod, Sr90, liquid "As Received"

Strontium-90	U	1.49	+/-2.69	4.73	+/-2.70	8.00	pCi/L			JE1	11/03/25	1155	2880541	4

9310, Alpha/Beta Activity, liquid "As Received"

Alpha	U	0.814	+/-3.62	7.84	+/-3.63	15.0	pCi/L			CH7	10/30/25	1241	2881479	5

Beta	U	4.24	+/-4.46	7.21	+/-4.52	50.0	pCi/L							

Rad Liquid Scintillation Analysis

906.0M, Tritium Dist, Liquid "As Received"

Tritium	U	24.5	+/-159	283	+/-159	300	pCi/L			IT1	10/22/25	0623	2880523	6

Tc-02-RC-MOD, Tc99, Liquid "As Received"

Technetium-99	U	1.91	+/-7.06	12.5	+/-7.06	25.0	pCi/L			BB3	11/09/25	0610	2883936	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"	2887410	92	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	80.3	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	81.4	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	89.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	100	(30%-110%)

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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26

Sample ID: 747475001

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,
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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26

Project: FRNP00714

Sample ID: 747475003

Client ID: FRNP007

Matrix: WG

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.315	+/-0.374	0.546	+/-0.375	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.201	+/-1.04	2.07	+/-1.04	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	-0.0667	+/-0.677	1.61	+/-0.678		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	4.08	+/-3.04	4.82	+/-3.26	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	1.44	+/-2.07	3.58	+/-2.08	8.00	pCi/L			JE1	11/03/25	1155	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-0.648	+/-2.77	7.01	+/-2.77	15.0	pCi/L			CH7	10/30/25	1712	2881479	5
Beta		31.0	+/-8.82	10.7	+/-10.1	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-75.3	+/-150	282	+/-150	300	pCi/L			IT1	10/22/25	0654	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99		46.8	+/-10.2	12.8	+/-11.5	25.0	pCi/L			BB3	11/09/25	0626	2883936	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"	2887410	91.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	66	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	65.2	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	101	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	99	(30%-110%)

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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26

Project: FRNP00714

Sample ID: 747475003

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Company : Four Rivers Nuclear Partnership,
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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26

Project: FRNP00714

Sample ID: 747475005

Client ID: FRNP007

Matrix: WG

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.239	+/-0.359	0.575	+/-0.360	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.0267	+/-0.557	1.20	+/-0.559	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	0.0505	+/-0.401	0.812	+/-0.401		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	4.79	+/-3.16	4.90	+/-3.45	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-3.21	+/-3.25	6.73	+/-3.25	8.00	pCi/L			JE1	11/03/25	1156	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	0.110	+/-3.12	7.17	+/-3.12	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta	U	1.96	+/-5.60	10.1	+/-5.61	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-9.90	+/-156	283	+/-156	300	pCi/L			IT1	10/22/25	0726	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	0.797	+/-7.47	13.4	+/-7.47	25.0	pCi/L			BB3	11/09/25	0643	2883936	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"	2887410	92	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	98	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	72.3	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	75.9	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	94.8	(30%-110%)

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Certificate of Analysis

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Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26

Project: FRNP00714

Sample ID: 747475005

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26

Project: FRNP00714

Sample ID: 747475007

Client ID: FRNP007

Matrix: WG

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.215	+/-0.348	0.573	+/-0.349	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.737	+/-0.991	1.53	+/-1.00	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	0.203	+/-0.617	1.11	+/-0.618		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	3.87	+/-3.00	4.87	+/-3.19	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.418	+/-2.09	4.14	+/-2.09	8.00	pCi/L			JE1	11/03/25	1156	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-1.07	+/-2.93	7.70	+/-2.94	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta		44.7	+/-10.7	12.5	+/-13.0	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-55.0	+/-151	280	+/-151	300	pCi/L			IT1	10/22/25	0758	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99		78.2	+/-11.9	12.8	+/-14.8	25.0	pCi/L			BB3	11/09/25	0659	2883936	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"	2887410	89.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	76.3	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	84.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	92	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	98.6	(30%-110%)

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26

Project: FRNP00714

Sample ID: 747475007

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26

Project: FRNP00714

Sample ID: 747475009

Client ID: FRNP007

Matrix: WG

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226		0.878	+/-0.524	0.511	+/-0.531	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.948	+/-1.30	2.03	+/-1.31	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	-0.186	+/-0.496	1.43	+/-0.497		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	3.15	+/-2.95	4.85	+/-3.08	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.917	+/-2.29	4.49	+/-2.29	8.00	pCi/L			JE1	11/03/25	1156	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-0.262	+/-1.78	5.05	+/-1.78	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta	U	3.62	+/-5.40	9.32	+/-5.43	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-34.1	+/-153	281	+/-153	300	pCi/L			IT1	10/22/25	0830	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	2.27	+/-7.38	13.0	+/-7.39	25.0	pCi/L			BB3	11/09/25	0716	2883936	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"	2887410	84.5	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	66.8	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	76.8	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	103	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	95.4	(30%-110%)

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26

Project: FRNP00714

Sample ID: 747475009

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26

Project: FRNP00714

Sample ID: 747475011

Client ID: FRNP007

Matrix: WG

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.227	+/-0.368	0.606	+/-0.368	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	1.12	+/-1.06	1.39	+/-1.07	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	-0.224	+/-0.383	1.21	+/-0.383		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		7.77	+/-3.48	4.94	+/-4.12	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-1.84	+/-2.62	5.20	+/-2.62	8.00	pCi/L			JE1	11/03/25	1156	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	1.27	+/-2.93	5.83	+/-2.94	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta	U	8.52	+/-6.25	9.75	+/-6.40	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-223	+/-139	286	+/-140	300	pCi/L			IT1	10/22/25	0901	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	-3.36	+/-7.02	13.2	+/-7.02	25.0	pCi/L			BB3	11/09/25	0733	2883936	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"	2887410	90.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	81	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	68.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	101	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	96.1	(30%-110%)

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26

Sample ID: 747475011

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,
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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26

Project: FRNP00714

Sample ID: 747475013

Client ID: FRNP007

Matrix: WG

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.00542	+/-0.249	0.547	+/-0.249	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.946	+/-1.21	1.87	+/-1.22	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	-0.110	+/-0.608	1.51	+/-0.609		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		4.95	+/-3.05	4.85	+/-3.35	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	2.77	+/-3.20	5.38	+/-3.22	8.00	pCi/L			JE1	11/03/25	1156	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	2.32	+/-3.68	6.62	+/-3.70	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta	U	2.79	+/-5.68	10.1	+/-5.70	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	6.19	+/-154	276	+/-154	300	pCi/L			IT1	10/22/25	0933	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	-1.69	+/-7.15	13.2	+/-7.15	25.0	pCi/L			BB3	11/09/25	0749	2883936	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"	2887410	87.7	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	76.1	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	92.1	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	96.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	95.5	(30%-110%)

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26

Project: FRNP00714

Sample ID: 747475013

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Company : Four Rivers Nuclear Partnership,
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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: RI1UG1-26

Project: FRNP00714

Sample ID: 747475015

Client ID: FRNP007

Matrix: WATER

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.199	+/-0.352	0.588	+/-0.353	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	-0.00296	+/-0.935	2.02	+/-0.936	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	-0.0697	+/-0.415	1.02	+/-0.416		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	2.53	+/-2.91	4.89	+/-2.99	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.918	+/-1.98	4.11	+/-1.98	8.00	pCi/L			JE1	11/03/25	1449	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	0.636	+/-2.68	5.92	+/-2.69	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta	U	3.25	+/-5.95	10.5	+/-5.98	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-19.9	+/-155	283	+/-155	300	pCi/L			IT1	10/22/25	1005	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	1.01	+/-7.31	13.1	+/-7.31	25.0	pCi/L			BB3	11/09/25	0806	2883936	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"	2887410	81.4	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	67.3	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	84.9	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	85.1	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	96.2	(30%-110%)

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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: RI1UG1-26

Project: FRNP00714

Sample ID: 747475015

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: FB1UG1-26

Project: FRNP00714

Sample ID: 747475017

Client ID: FRNP007

Matrix: WATER

Collect Date: 13-OCT-25

Receive Date: 14-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.230	+/-0.321	0.479	+/-0.322	5.00	pCi/L			JD3	11/02/25	1207	2887410	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	1.18	+/-1.10	1.47	+/-1.11	50.0	pCi/L			RM3	11/02/25	1214	2887404	2
Thorium-232	U	0.105	+/-0.473	0.856	+/-0.474		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	4.74	+/-3.21	4.95	+/-3.48	4.99	pCi/L			DH1	11/10/25	1013	2895144	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-1.66	+/-1.53	3.63	+/-1.53	8.00	pCi/L			JE1	11/03/25	1156	2880541	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-0.786	+/-2.36	6.51	+/-2.36	15.0	pCi/L			CH7	10/29/25	1426	2881479	5
Beta	U	1.07	+/-5.54	10.2	+/-5.55	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	-13.0	+/-155	282	+/-155	300	pCi/L			IT1	10/22/25	1036	2880523	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	-2.21	+/-7.05	13.1	+/-7.05	25.0	pCi/L			BB3	11/09/25	0823	2883936	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"	2887410	84.8	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887404	76.8	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2895144	81.6	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2880541	92	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2883936	95.7	(30%-110%)

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: FB1UG1-26

Project: FRNP00714

Sample ID: 747475017

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26 Project: FRNP00714
Sample ID: 747475001 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 06:48
Receive Date: 14-OCT-25
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	0.00853	0.0190	ug/L	0.948	1	BM1	10/19/25	1644	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.09	0.330	2.00	mg/L		1	KB3	10/16/25	2315	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1101	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.90	3.33	10.0	ug/L		1	RMJ	10/24/25	0036	2883950	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1509	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Chloride	JN	17.8	0.335	250	mg/L		5	CH6	10/14/25	1445	2880168	6
Sulfate		27.1	0.665	2.00	mg/L		5					
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/14/25	2259	2880168	7
Fluoride	J	0.165	0.0330	4.00	mg/L		1					
Nitrate-N	J	3.24	0.0330	10.0	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	0951	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2145	2880207	9
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		0.113	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		20.1	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000616	0.000300	0.00100	mg/L	1.00	1					

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26
Sample ID: 747475001

Project: FRNP00714
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		7.89	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0738	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.0140	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.04	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		36.1	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	J	0.00177	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1605	2891919	10
Boron		0.0262	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1209	2880207	11
Zinc	BJ	0.00581	0.00330	0.0200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0951	0.0317	0.0951	ug/L	0.000951	1	NS2	11/07/25	2313	2894228	12
Aroclor-1221	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-1232	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-1242	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-1248	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-1254	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-1260	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-1268	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Aroclor-Total	U	0.0951	0.0317	0.0951	ug/L	0.000951	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	195	2.38	10.0	mg/L			SC1	10/15/25	1759	2880595	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26
Sample ID: 747475001

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	8.05 ug/L	6.77	119	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.224 ug/L	0.190	118	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.196 ug/L	0.190	103	(26%-108%)

Notes:

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26
Sample ID: 747475001

Project: FRNP00714
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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26 Project: FRNP00714
Sample ID: 747475002 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 06:48
Receive Date: 14-OCT-25
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		0.111	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0251	2880358	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26 Project: FRNP00714
Sample ID: 747475003 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 07:38
Receive Date: 14-OCT-25
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	BM1	10/19/25	1718	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.612	0.330	2.00	mg/L		1	KB3	10/17/25	0053	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1102	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	10/23/25	2232	2883950	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1547	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Chloride	JN	36.8	0.335	250	mg/L		5	CH6	10/14/25	1516	2880168	6
Sulfate		67.2	0.665	2.00	mg/L		5					
Bromide		0.467	0.0670	0.200	mg/L		1	CH6	10/14/25	2330	2880168	7
Fluoride	J	0.134	0.0330	4.00	mg/L		1					
Nitrate-N	J	1.14	0.0330	10.0	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	0953	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2148	2880207	9
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		0.0549	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		32.1	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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Certificate of Analysis

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26
Sample ID: 747475003

Project: FRNP00714
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		14.0	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00287	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		1.95	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		40.3	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	J	0.00153	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1608	2891919	10
Zinc	BJ	0.0197	0.00330	0.0200	mg/L	1.00	1	BAJ	11/04/25	1212	2880207	11
Boron		0.208	0.0260	0.0750	mg/L	1.00	5	BAJ	11/04/25	1219	2880207	12
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.100	0.0333	0.100	ug/L	0.00100	1	NS2	11/07/25	2325	2894228	13
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	*	244	2.38	10.0	mg/L			SC1	10/15/25	1759	2880595	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26
Sample ID: 747475003

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/20/25	1335	2882386	16
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	ULY1	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	UL	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26
Sample ID: 747475003

Project: FRNP00714
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	J	0.660	0.500	5.00	ug/L		1					
Styrene	U	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	0.540	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)	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	UL	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	HC1	10/15/25	0800	2880206
SW846 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26
Sample ID: 747475003

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3005A/6020B		
13	SW846 3535A/8082A		
14	EPA 160.1		
15	EPA 410.4		
16	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.25 ug/L	6.79	107	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.218 ug/L	0.200	109	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.168 ug/L	0.200	84	(26%-108%)
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"	57.5 ug/L	50.0	115	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	47.3 ug/L	50.0	95	(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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW364UG1-26 Project: FRNP00714
Sample ID: 747475004 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 07:38
Receive Date: 14-OCT-25
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		0.0552	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0254	2880358	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26 Project: FRNP00714
Sample ID: 747475005 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 08:40
Receive Date: 14-OCT-25
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	BM1	10/19/25	1901	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.42	0.330	2.00	mg/L		1	KB3	10/16/25	2347	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1111	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		14.8	3.33	10.0	ug/L		1	RMJ	10/24/25	0159	2883950	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1626	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Sulfate		51.9	0.665	2.00	mg/L		5	CH6	10/14/25	1547	2880168	6
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/15/25	0204	2880168	7
Chloride	JN	1.84	0.0670	250	mg/L		1					
Fluoride	J	0.263	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.840	0.0330	10.0	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	0959	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	J	0.0223	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2209	2880207	9
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		0.0853	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		17.9	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00110	0.000300	0.00100	mg/L	1.00	1					

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26
Sample ID: 747475005

Project: FRNP00714
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		8.05	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00614	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00545	0.000600	0.00200	mg/L	1.00	1					
Potassium	J	0.221	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		44.7	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium	J	0.0000920	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Copper		0.00241	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1630	2891919	10
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1227	2880207	11
Zinc	BJ	0.00572	0.00330	0.0200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0989	0.0329	0.0989	ug/L	0.000989	1	NS2	11/08/25	0002	2894228	12
Aroclor-1221	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-1232	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-1242	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-1248	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-1254	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-1260	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-1268	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Aroclor-Total	U	0.0989	0.0329	0.0989	ug/L	0.000989	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	183	2.38	10.0	mg/L			SC1	10/15/25	1759	2880595	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

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Company : Four Rivers Nuclear Partnership, LLC
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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26
Sample ID: 747475005

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.41 ug/L	6.79	109	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.177 ug/L	0.198	90	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.171 ug/L	0.198	86	(26%-108%)

Notes:

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26
Sample ID: 747475005

Project: FRNP00714
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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26 Project: FRNP00714
Sample ID: 747475006 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 08:40
Receive Date: 14-OCT-25
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		0.0799	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0313	2880358	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.0000800	0.0000670	0.000200	mg/L	1.00	1	BAJ	10/25/25	1410	2880358	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251

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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID:	MW366UG1-26	Project:	FRNP00714
Sample ID:	747475007	Client ID:	FRNP007
Matrix:	WG		
Collect Date:	13-OCT-25 09:30		
Receive Date:	14-OCT-25		
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	0.0191	0.00860	0.0191	ug/L	0.955	1	BM1	10/19/25	1936	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.734	0.330	2.00	mg/L		1	KB3	10/17/25	0228	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1112	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	10/25/25	0201	2886512	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1639	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Chloride	JN	41.6	0.335	250	mg/L		5	CH6	10/14/25	1618	2880168	6
Sulfate		51.9	0.665	2.00	mg/L		5					
Bromide		0.504	0.0670	0.200	mg/L		1	CH6	10/15/25	0235	2880168	7
Fluoride	J	0.179	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.922	0.0330	10.0	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	1001	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2212	2880207	9
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		0.102	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		34.3	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
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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26
Sample ID: 747475007

Project: FRNP00714
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	0.0582	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		14.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00678	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00104	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.05	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00220	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		48.3	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	J	0.00169	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1633	2891919	10
Boron		0.127	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1228	2880207	11
Zinc	BJ	0.00470	0.00330	0.0200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0992	0.0330	0.0992	ug/L	0.000992	1	NS2	11/08/25	0014	2894228	12
Aroclor-1221	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1232	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1242	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1248	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1254	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1260	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1268	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-Total	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	207	2.38	10.0	mg/L			SC1	10/15/25	1759	2880595	13
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26
Sample ID: 747475007

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	14
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/20/25	1400	2882386	15
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	ULY1	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	UL	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26
Sample ID: 747475007

Project: FRNP00714
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	J	0.630	0.500	5.00	ug/L		1					
Styrene	U	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	0.440	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	UL	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	JB7	11/03/25	1630	2891918
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26
Sample ID: 747475007

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3535A/8082A		
13	EPA 160.1		
14	EPA 410.4		
15	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	8.15 ug/L	6.82	119	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.223 ug/L	0.198	112	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.172 ug/L	0.198	87	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.9 ug/L	50.0	100	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	57.1 ug/L	50.0	114	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	47.0 ug/L	50.0	94	(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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW366UG1-26 Project: FRNP00714
Sample ID: 747475008 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 09:30
Receive Date: 14-OCT-25
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		0.0951	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0316	2880358	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26
Sample ID: 747475009
Matrix: WG
Collect Date: 13-OCT-25 12:10
Receive Date: 14-OCT-25
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	0.0192	0.00864	0.0192	ug/L	0.960	1	BM1	10/19/25	2010	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.401	0.330	2.00	mg/L		1	KB3	10/17/25	0259	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1113	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	10/25/25	0325	2886512	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1652	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Sulfate		21.3	0.532	1.60	mg/L		4	CH6	10/14/25	1648	2880168	6
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/15/25	0306	2880168	7
Chloride	JN	7.97	0.0670	250	mg/L		1					
Fluoride	J	0.0716	0.0330	4.00	mg/L		1					
Nitrate-N	U	10.0	0.0330	10.0	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	1002	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2215	2880207	9
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		0.133	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		13.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00765	0.000300	0.00100	mg/L	1.00	1					

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Company : Four Rivers Nuclear Partnership, LLC
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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26
Sample ID: 747475009

Project: FRNP00714
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		5.60	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.24	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00300	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.88	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		16.8	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	J	0.00160	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1636	2891919	10
Boron		0.0191	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1229	2880207	11
Zinc	BJ	0.0156	0.00330	0.0200	mg/L	1.00	1					
Manganese		1.37	0.0100	0.0500	mg/L	1.00	10	PRB	11/07/25	1549	2880207	12
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.105	0.0349	0.105	ug/L	0.00105	1	NS2	11/08/25	0027	2894228	13
Aroclor-1221	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-1232	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-1242	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-1248	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-1254	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-1260	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-1268	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Aroclor-Total	U	0.105	0.0349	0.105	ug/L	0.00105	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	121	2.38	10.0	mg/L			SC1	10/15/25	1822	2880596	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26
Sample ID: 747475009

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	15

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	8.01 ug/L	6.86	117	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.231 ug/L	0.210	110	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.195 ug/L	0.210	93	(26%-108%)

Notes:

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Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26
Sample ID: 747475009

Project: FRNP00714
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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26 Project: FRNP00714
Sample ID: 747475010 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 12:10
Receive Date: 14-OCT-25
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		0.116	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0319	2880358	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26
Sample ID: 747475011
Matrix: WG
Collect Date: 13-OCT-25 12:10
Receive Date: 14-OCT-25
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	0.956	1	BM1	10/19/25	2044	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.449	0.330	2.00	mg/L		1	KB3	10/17/25	0331	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1114	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	10/25/25	0405	2886512	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1704	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Sulfate		20.9	0.532	1.60	mg/L		4	CH6	10/14/25	1719	2880168	6
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/15/25	0337	2880168	7
Chloride	JN	7.96	0.0670	250	mg/L		1					
Fluoride	J	0.0759	0.0330	4.00	mg/L		1					
Nitrate-N	U	10.0	0.0330	10.0	mg/L		1					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	1004	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	J	0.0208	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2218	2880207	9
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		0.129	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		13.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00729	0.000300	0.00100	mg/L	1.00	1					

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26
Sample ID: 747475011

Project: FRNP00714
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		5.76	0.0330	0.100	mg/L	1.00	1					
Lead	U	0.00200	0.000500	0.00200	mg/L	1.00	1					
Magnesium		7.28	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00282	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.92	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		16.9	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	J	0.00117	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1639	2891919	10
Boron		0.0178	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1231	2880207	11
Zinc	BJ	0.0153	0.00330	0.0200	mg/L	1.00	1					
Manganese		1.30	0.0100	0.0500	mg/L	1.00	10	PRB	11/07/25	1552	2880207	12
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0975	0.0325	0.0975	ug/L	0.000975	1	NS2	11/08/25	0104	2894228	13
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	*	142	2.38	10.0	mg/L			SC1	10/15/25	1822	2880596	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26
Sample ID: 747475011

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	15

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.66 ug/L	6.83	98	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.181 ug/L	0.195	93	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.167 ug/L	0.195	86	(26%-108%)

Notes:

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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26
Sample ID: 747475011

Project: FRNP00714
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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26 Project: FRNP00714
Sample ID: 747475012 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 12:10
Receive Date: 14-OCT-25
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		0.119	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0322	2880358	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26 Project: FRNP00714
Sample ID: 747475013 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 13:18
Receive Date: 14-OCT-25
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	0.0194	0.00873	0.0194	ug/L	0.970	1	BM1	10/19/25	2159	2880247	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.20	0.330	2.00	mg/L		1	KB3	10/17/25	0403	2878047	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/16/25	1115	2880423	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	U	10.0	3.33	10.0	ug/L		1	RMJ	10/25/25	0534	2886512	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1717	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/15/25	0408	2880168	6
Chloride	JN	1.88	0.0670	250	mg/L		1					
Fluoride	J	0.190	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.106	0.0330	10.0	mg/L		1					
Sulfate		94.8	1.33	4.00	mg/L		10	CH6	10/15/25	1018	2880168	7
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	1009	2884785	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum		0.480	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2221	2880207	9
Antimony	U	0.00300	0.00100	0.00300	mg/L	1.00	1					
Arsenic	J	0.00263	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0672	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					
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					
Iron		0.276	0.0330	0.100	mg/L	1.00	1					

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26
Sample ID: 747475013

Project: FRNP00714
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		13.0	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.00856	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000551	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.000793	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.438	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Uranium		0.000296	0.0000670	0.000200	mg/L	1.00	1					
Vanadium	J	0.00403	0.00330	0.0200	mg/L	1.00	1					
Copper	J	0.000883	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1642	2891919	10
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1232	2880207	11
Zinc	BJ	0.00483	0.00330	0.0200	mg/L	1.00	1					
Calcium		52.7	0.800	2.00	mg/L	1.00	10	PRB	11/07/25	1556	2880207	12
Sodium		56.9	0.800	2.50	mg/L	1.00	10					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.104	0.0347	0.104	ug/L	0.00104	1	NS2	11/08/25	0116	2894228	13
Aroclor-1221	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-1232	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-1242	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-1248	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-1254	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-1260	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-1268	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Aroclor-Total	U	0.104	0.0347	0.104	ug/L	0.00104	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	369	2.38	10.0	mg/L			SC1	10/15/25	1822	2880596	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26
Sample ID: 747475013

Project: FRNP00714
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	UN	20.0	8.95	20.0	mg/L		1	BR2	10/21/25	1519	2884256	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/20/25	1450	2882386	16
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	ULY1	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	UL	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26
Sample ID: 747475013

Project: FRNP00714
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	J	0.730	0.500	5.00	ug/L		1					
Styrene	U	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	UL	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	JB7	11/03/25	1630	2891918
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/15/25	1354	2880422
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26
Sample ID: 747475013

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3005A/6020B		
13	SW846 3535A/8082A		
14	EPA 160.1		
15	EPA 410.4		
16	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.02 ug/L	6.93	101	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.193 ug/L	0.208	93	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.183 ug/L	0.208	88	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.8 ug/L	50.0	100	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	56.9 ug/L	50.0	114	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	47.3 ug/L	50.0	95	(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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW368UG1-26 Project: FRNP00714
Sample ID: 747475014 Client ID: FRNP007
Matrix: WG
Collect Date: 13-OCT-25 13:18
Receive Date: 14-OCT-25
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		0.0666	0.000670	0.00400	mg/L	1.00	1	BAJ	10/25/25	0325	2880358	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium		0.000281	0.0000670	0.000200	mg/L	1.00	1	BAJ	10/25/25	1411	2880358	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	JB7	10/16/25	1540	2880357
EPA 160	Laboratory Filtration	LF1	10/14/25	1500	2880251

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

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID:	RIIUG1-26	Project:	FRNP00714
Sample ID:	747475015	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	13-OCT-25 05:55		
Receive Date:	14-OCT-25		
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	0.0194	0.00873	0.0194	ug/L	0.970	1	BM1	10/19/25	2234	2880247	1
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1730	2883458	2
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	1011	2884785	3
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2224	2880207	4
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	U	0.00400	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	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					
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	U	0.0300	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	0.00500	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	U	0.300	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	J	0.00103	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1645	2891919	5

GEL LABORATORIES LLC

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: RIIUG1-26
Sample ID: 747475015

Project: FRNP00714
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"												
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1233	2880207	6
Zinc	U	0.0200	0.00330	0.0200	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	NS2	11/08/25	0128	2894228	7
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					
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	10/17/25	1413	2882386	8
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	UY1	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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Company : Four Rivers Nuclear Partnership, LLC
Address : 5600 Hobbs Road

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: RIIUG1-26
Sample ID: 747475015

Project: FRNP00714
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	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					
Methylene chloride	J	1.10	0.500	5.00	ug/L		1					
Styrene	U	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	BM1	10/17/25	1259	2880244
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: RIIUG1-26
Sample ID: 747475015

Project: FRNP00714
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	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3535A/8082A	
8	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.11 ug/L	6.93	103	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.214 ug/L	0.204	105	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.168 ug/L	0.204	82	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.0 ug/L	50.0	96	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	47.4 ug/L	50.0	95	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	53.7 ug/L	50.0	107	(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

GEL LABORATORIES LLC

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Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB2UG1-26 Project: FRNP00714
Sample ID: 747475016 Client ID: FRNP007
Matrix: WATER
Collect Date: 13-OCT-25 05:50
Receive Date: 14-OCT-25
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	BM1	10/19/25	2308	2880247	1
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	10/17/25	1439	2882386	2
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	UY1	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	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB2UG1-26
Sample ID: 747475016

Project: FRNP00714
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	J	1.01	0.500	5.00	ug/L		1					
Styrene	U	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	BM1	10/17/25	1259	2880244

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.95 ug/L	6.80	102	(56%-149%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.5 ug/L	50.0	95	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	44.1 ug/L	50.0	88	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	53.7 ug/L	50.0	107	(89%-112%)

Notes:

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB2UG1-26
Sample ID: 747475016

Project: FRNP00714
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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: FB1UG1-26 Project: FRNP00714
Sample ID: 747475017 Client ID: FRNP007
Matrix: WATER
Collect Date: 13-OCT-25 12:15
Receive Date: 14-OCT-25
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	0.00865	0.0192	ug/L	0.962	1	BM1	10/19/25	2342	2880247	1
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1743	2883458	2
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JM13	10/23/25	1012	2884785	3
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	U	0.0500	0.0193	0.0500	mg/L	1.00	1	PRB	11/02/25	2227	2880207	4
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	U	0.00400	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	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					
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	U	0.0300	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	0.00500	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	U	0.300	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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					
Tantalum	U	0.00500	0.00100	0.00500	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					
Copper	U	0.00200	0.000300	0.00200	mg/L	1.00	1	RM4	11/05/25	1648	2891919	5

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: FB1UG1-26
Sample ID: 747475017

Project: FRNP00714
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"												
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1	BAJ	11/04/25	1234	2880207	6
Zinc	U	0.0200	0.00330	0.0200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.102	0.0339	0.102	ug/L	0.00102	1	NS2	11/08/25	0141	2894228	7
Aroclor-1221	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1232	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1242	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1248	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1254	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1260	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1268	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-Total	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	CO1	10/17/25	1504	2882386	8
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	UY1	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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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: FB1UG1-26
Sample ID: 747475017

Project: FRNP00714
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	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					
Methylene chloride	J	0.800	0.500	5.00	ug/L		1					
Styrene	U	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 3005A	ICP-MS 3005A PREP	JB7	11/03/25	1630	2891918
SW846 3005A	ICP-MS 3005A PREP	HC1	10/15/25	0800	2880206
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	MM7	10/22/25	1200	2884781
SW846 8011 PREP	8011 Prep	BM1	10/17/25	1259	2880244
SW846 3535A	SW3535A PCB SPE Extraction	DXF4	11/07/25	0515	2894220

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: FB1UG1-26
Sample ID: 747475017

Project: FRNP00714
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	EPA 300.0		
3	SW846 7470A		
4	SW846 3005A/6020B		
5	SW846 3005A/6020B		
6	SW846 3005A/6020B		
7	SW846 3535A/8082A		
8	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.58 ug/L	6.87	110	(56%-149%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.217 ug/L	0.204	107	(30%-135%)
4cmx	8082A, PCB Liquids "As Received"	0.180 ug/L	0.204	88	(26%-108%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.5 ug/L	50.0	101	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	47.1 ug/L	50.0	94	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	55.8 ug/L	50.0	112	(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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ATTACHMENT C3

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,
Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26
Sample ID: 747587001
Matrix: WG
Collect Date: 14-OCT-25
Receive Date: 15-OCT-25
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	0.400	+/-0.429	0.583	+/-0.431	5.00	pCi/L			JD3	11/02/25	1236	2887472	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.320	+/-0.967	1.82	+/-0.971	50.0	pCi/L			CM4	11/01/25	0811	2887470	2
Thorium-232	U	0.0710	+/-0.515	1.03	+/-0.515		pCi/L							

Rad Gas Flow Proportional Counting

904.0Mod, Ra228, Liquid "As Received"

Radium-228		6.62	+/-3.30	4.85	+/-3.78	4.99	pCi/L			DH1	11/10/25	0824	2894304	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.832	+/-1.75	3.11	+/-1.75	8.00	pCi/L			JE1	11/06/25	1757	2893344	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	4.36	+/-4.80	7.65	+/-4.85	15.0	pCi/L			CH7	10/29/25	1426	2881482	5
Beta		36.6	+/-11.4	15.3	+/-12.8	50.0	pCi/L							

Rad Liquid Scintillation Analysis

906.0M, Tritium Dist, Liquid "As Received"

Tritium	U	43.2	+/-77.7	138	+/-78.1	300	pCi/L			MG6	10/23/25	1628	2881183	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99		72.6	+/-13.6	17.4	+/-15.9	25.0	pCi/L			BB3	10/28/25	1749	2884376	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"	2887472	98.1	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	78.3	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	75.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	49.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	95.6	(30%-110%)

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26

Sample ID: 747587001

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,
Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26

Project: FRNP00714

Sample ID: 747587003

Client ID: FRNP007

Matrix: WG

Collect Date: 14-OCT-25

Receive Date: 15-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.543	+/-0.513	0.703	+/-0.515	5.00	pCi/L			JD3	11/02/25	1236	2887472	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	1.03	+/-1.01	1.42	+/-1.03	50.0	pCi/L			CM4	11/01/25	0811	2887470	2
Thorium-232	U	0.0213	+/-0.449	0.973	+/-0.449		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		5.35	+/-3.11	4.77	+/-3.46	4.99	pCi/L			DH1	11/10/25	0824	2894304	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	0.577	+/-1.15	1.97	+/-1.15	8.00	pCi/L			JE1	11/06/25	1757	2893344	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	-1.62	+/-2.53	8.16	+/-2.54	15.0	pCi/L			CH7	10/30/25	1235	2881482	5
Beta	U	6.59	+/-5.78	9.30	+/-5.88	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	32.3	+/-85.4	155	+/-85.6	300	pCi/L			MG6	10/25/25	1646	2881183	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	9.90	+/-10.0	16.7	+/-10.1	25.0	pCi/L			BB3	10/28/25	1806	2884376	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"	2887472	98.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	88.8	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	70.1	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	65.5	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	99	(30%-110%)

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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26

Project: FRNP00714

Sample ID: 747587003

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26

Project: FRNP00714

Sample ID: 747587005

Client ID: FRNP007

Matrix: WG

Collect Date: 14-OCT-25

Receive Date: 15-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.576	+/-0.513	0.693	+/-0.516	5.00	pCi/L			JD3	11/02/25	1236	2887472	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.175	+/-0.749	1.47	+/-0.751	50.0	pCi/L			CM4	11/01/25	0811	2887470	2
Thorium-232	U	0.0563	+/-0.433	0.874	+/-0.433		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		6.44	+/-3.22	4.75	+/-3.69	4.99	pCi/L			DH1	11/10/25	0824	2894304	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	0.241	+/-3.49	6.02	+/-3.49	8.00	pCi/L			JE1	11/06/25	1757	2893344	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	3.04	+/-4.43	7.76	+/-4.46	15.0	pCi/L			CH7	10/29/25	1426	2881482	5
Beta	U	-0.580	+/-5.42	10.4	+/-5.43	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	86.4	+/-84.3	137	+/-85.9	300	pCi/L			MG6	10/23/25	1731	2881183	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	0.377	+/-9.86	17.5	+/-9.86	25.0	pCi/L			BB3	10/28/25	1823	2884376	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"	2887472	95.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	90.1	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	75	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	31.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	95.3	(30%-110%)

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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26

Project: FRNP00714

Sample ID: 747587005

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26

Project: FRNP00714

Sample ID: 747587007

Client ID: FRNP007

Matrix: WG

Collect Date: 14-OCT-25

Receive Date: 15-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.217	+/-0.413	0.715	+/-0.414	5.00	pCi/L			JD3	11/02/25	1236	2887472	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.148	+/-1.41	2.98	+/-1.41	50.0	pCi/L			CM4	11/05/25	0838	2887470	2
Thorium-232	U	-0.411	+/-0.844	2.63	+/-0.847		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228	U	2.80	+/-2.85	4.73	+/-2.95	4.99	pCi/L			DH1	11/10/25	0824	2894304	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.801	+/-1.48	2.74	+/-1.48	8.00	pCi/L			JE1	11/06/25	1757	2893344	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	0.637	+/-3.09	6.82	+/-3.09	15.0	pCi/L			CH7	10/29/25	1426	2881482	5
Beta		47.8	+/-10.1	10.1	+/-12.7	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	124	+/-90.1	137	+/-93.2	300	pCi/L			MG6	10/23/25	1803	2881183	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99		67.1	+/-12.9	16.6	+/-14.9	25.0	pCi/L			BB3	10/28/25	1839	2884376	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"	2887472	95.3	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	89	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	80.4	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	36.2	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	101	(30%-110%)

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Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26

Project: FRNP00714

Sample ID: 747587007

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW373UG1-26

Project: FRNP00714

Sample ID: 747587009

Client ID: FRNP007

Matrix: WG

Collect Date: 14-OCT-25

Receive Date: 15-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.269	+/-0.455	0.775	+/-0.455	5.00	pCi/L			JD3	11/02/25	1236	2887472	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	0.0681	+/-1.48	3.25	+/-1.48	50.0	pCi/L			CM4	11/05/25	0839	2887470	2
Thorium-232	U	-0.226	+/-0.863	2.35	+/-0.866		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		7.93	+/-3.36	4.77	+/-4.02	4.99	pCi/L			DH1	11/10/25	0824	2894304	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-0.0750	+/-1.59	2.78	+/-1.59	8.00	pCi/L			JE1	11/06/25	1757	2893344	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	0.705	+/-3.85	8.70	+/-3.86	15.0	pCi/L			CH7	10/30/25	1235	2881482	5
Beta	U	4.02	+/-4.27	7.00	+/-4.33	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	132	+/-92.2	140	+/-95.7	300	pCi/L			MG6	10/23/25	1835	2881183	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	0.484	+/-9.04	16.0	+/-9.04	25.0	pCi/L			BB3	10/28/25	1856	2884376	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"	2887472	100	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	82.2	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	74.5	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	49.7	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	101	(30%-110%)

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Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW373UG1-26

Project: FRNP00714

Sample ID: 747587009

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

Mtd.: Method

DL: Detection Limit

PF: Prep Factor

Lc/LC: Critical Level

RL: Reporting Limit

MDA: Minimum Detectable Activity

TPU: Total Propagated Uncertainty

MDC: Minimum Detectable Concentration

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership,
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Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW374UG1-26

Project: FRNP00714

Sample ID: 747587011

Client ID: FRNP007

Matrix: WG

Collect Date: 14-OCT-25

Receive Date: 15-OCT-25

Collector: Client

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	0.611	+/-0.510	0.654	+/-0.514	5.00	pCi/L			JD3	11/02/25	1236	2887472	1

Th-01-RC M, Th Isotopes, Liquid "As Received"

Thorium-230	U	1.39	+/-1.14	1.46	+/-1.16	50.0	pCi/L			CM4	11/01/25	0811	2887470	2

Thorium-232	U	-0.0216	+/-0.319	0.668	+/-0.320		pCi/L							

Rad Gas Flow Proportional Counting

904.0Mod, Ra228, Liquid "As Received"

Radium-228		6.91	+/-3.34	4.96	+/-3.87	4.99	pCi/L			DH1	11/10/25	0824	2894304	3

905.0Mod, Sr90, liquid "As Received"

Strontium-90	U	-2.06	+/-2.92	5.19	+/-2.92	8.00	pCi/L			JE1	11/06/25	1757	2893344	4

9310, Alpha/Beta Activity, liquid "As Received"

Alpha	U	-2.76	+/-3.10	9.05	+/-3.10	15.0	pCi/L			CH7	10/29/25	1426	2881482	5

Beta	U	1.30	+/-5.54	10.2	+/-5.54	50.0	pCi/L							

Rad Liquid Scintillation Analysis

906.0M, Tritium Dist, Liquid "As Received"

Tritium	U	-60.4	+/-61.0	142	+/-61.0	300	pCi/L			MG6	10/23/25	1907	2881183	6

Tc-02-RC-MOD, Tc99, Liquid "As Received"

Technetium-99	U	4.79	+/-9.78	16.8	+/-9.79	25.0	pCi/L			BB3	10/28/25	1912	2884376	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"	2887472	96	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	90.1	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	64.7	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	33.9	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	95.7	(30%-110%)

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW374UG1-26

Sample ID: 747587011

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,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26

Project: FRNP00714

Sample ID: 747587013

Client ID: FRNP007

Matrix: WG

Collect Date: 14-OCT-25

Receive Date: 15-OCT-25

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Alpha Spec Analysis														
<i>AN-1418 AlphaSpec Ra226, Liquid "As Received"</i>														
Radium-226	U	0.213	+/-0.405	0.701	+/-0.406	5.00	pCi/L			JD3	11/02/25	1236	2887472	1
<i>Th-01-RC M, Th Isotopes, Liquid "As Received"</i>														
Thorium-230	U	1.45	+/-1.37	1.87	+/-1.39	50.0	pCi/L			CM4	11/01/25	0811	2887470	2
Thorium-232	U	-0.170	+/-0.449	1.30	+/-0.450		pCi/L							
Rad Gas Flow Proportional Counting														
<i>904.0Mod, Ra228, Liquid "As Received"</i>														
Radium-228		5.76	+/-3.21	4.85	+/-3.59	4.99	pCi/L			DH1	11/10/25	0824	2894304	3
<i>905.0Mod, Sr90, liquid "As Received"</i>														
Strontium-90	U	-2.06	+/-3.62	6.37	+/-3.62	8.00	pCi/L			JE1	11/06/25	1757	2893344	4
<i>9310, Alpha/Beta Activity, liquid "As Received"</i>														
Alpha	U	1.62	+/-3.43	6.62	+/-3.44	15.0	pCi/L			CH7	10/29/25	1426	2881482	5
Beta	U	4.33	+/-5.80	9.90	+/-5.84	50.0	pCi/L							
Rad Liquid Scintillation Analysis														
<i>906.0M, Tritium Dist, Liquid "As Received"</i>														
Tritium	U	65.7	+/-81.2	138	+/-82.2	300	pCi/L			MG6	10/23/25	1938	2881183	6
<i>Tc-02-RC-MOD, Tc99, Liquid "As Received"</i>														
Technetium-99	U	-2.89	+/-9.46	17.2	+/-9.47	25.0	pCi/L			BB3	10/28/25	1929	2884376	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"	2887472	96.8	(30%-110%)
Thorium-229 Tracer	Th-01-RC M, Th Isotopes, Liquid "As Received"	2887470	66.4	(30%-110%)
Barium-133 Tracer	904.0Mod, Ra228, Liquid "As Received"	2894304	75.9	(30%-110%)
Strontium Carrier	905.0Mod, Sr90, liquid "As Received"	2893344	31.6	(30%-110%)
Technetium-99m Tracer	Tc-02-RC-MOD, Tc99, Liquid "As Received"	2884376	96.9	(30%-110%)

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Certificate of Analysis

Company : Four Rivers Nuclear Partnership,
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5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26

Sample ID: 747587013

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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26 Project: FRNP00714
Sample ID: 747587001 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 06:46
Receive Date: 15-OCT-25
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	0.00862	0.0192	ug/L	0.958	1	BM1	10/20/25	0058	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.840	0.330	2.00	mg/L		1	KB3	10/17/25	0758	2881621	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1019	2881268	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		10.6	3.33	10.0	ug/L		1	JW2	10/22/25	1700	2884440	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1822	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.328	0.0670	0.200	mg/L		1	CH6	10/15/25	1416	2880692	6
Fluoride	J	0.156	0.0330	4.00	mg/L		1					
Sulfate		8.69	0.133	0.400	mg/L		1					
Chloride	JN	28.0	0.268	250	mg/L		4	CH6	10/15/25	2058	2880692	7
Nitrate-N	J	1.12	0.132	10.0	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	10/29/25	1015	2888210	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	B	0.185	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1721	2881335	9
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		0.359	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		0.00584	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00185	0.000300	0.00200	mg/L	1.00	1					
Iron		0.239	0.0330	0.100	mg/L	1.00	1					

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26
Sample ID: 747587001

Project: FRNP00714
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		6.46	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0263	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel		0.00311	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.597	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00276	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Sodium		46.5	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00617	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1813	2881335	10
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1027	2881335	11
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Boron		0.0198	0.00520	0.0150	mg/L	1.00	1	PRB	11/10/25	1232	2881335	12
Calcium	B	16.8	0.0800	0.200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.102	0.0339	0.102	ug/L	0.00102	1	NS2	11/11/25	0657	2895677	13
Aroclor-1221	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1232	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1242	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1248	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1254	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1260	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1268	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-Total	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	177	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26
Sample ID: 747587001

Project: FRNP00714
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	11.1	8.95	20.0	mg/L		1	BR2	10/24/25	1458	2885546	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1112	2884203	16
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	ULY1	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	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
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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26
Sample ID: 747587001

Project: FRNP00714
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	U	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	0.950	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	10/17/25	1500	2881693
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264
SW846 3535A	SW3535A PCB SPE Extraction	DG3	11/10/25	1034	2895676
SW846 8011 PREP	8011 Prep	LL2	10/17/25	1034	2880577
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	10/28/25	1055	2888208

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Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26
Sample ID: 747587001

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3005A/6020B		
13	SW846 3535A/8082A		
14	EPA 160.1		
15	EPA 410.4		
16	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.31 ug/L	6.84	92	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.155 ug/L	0.204	76	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.108 ug/L	0.204	53	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.4 ug/L	50.0	95	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.4 ug/L	50.0	99	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	48.8 ug/L	50.0	98	(81%-118%)

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

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW369UG1-26 Project: FRNP00714
Sample ID: 747587002 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 06:46
Receive Date: 15-OCT-25
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		0.355	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1853	2881050	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26
Sample ID: 747587003
Matrix: WG
Collect Date: 14-OCT-25 07:36
Receive Date: 15-OCT-25
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	0.00857	0.0190	ug/L	0.952	1	BM1	10/20/25	0132	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.827	0.330	2.00	mg/L		1	KB3	10/17/25	0830	2881621	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1020	2881268	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	7.96	3.33	10.0	ug/L		1	JW2	10/22/25	1519	2884440	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1834	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.512	0.0670	0.200	mg/L		1	CH6	10/15/25	1447	2880692	6
Fluoride	J	0.139	0.0330	4.00	mg/L		1					
Sulfate		19.4	0.133	0.400	mg/L		1					
Chloride	JN	41.1	0.335	250	mg/L		5	CH6	10/15/25	2128	2880692	7
Nitrate-N	J	1.15	0.165	10.0	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	10/29/25	1016	2888210	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	BJ	0.0248	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1724	2881335	9
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		0.213	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	0.00108	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0339	0.0330	0.100	mg/L	1.00	1					

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26
Sample ID: 747587003

Project: FRNP00714
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		11.0	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	0.00500	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		2.42	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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		40.1	0.0800	0.250	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00480	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1814	2881335	10
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1028	2881335	11
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Boron		0.0695	0.00520	0.0150	mg/L	1.00	1	PRB	11/10/25	1235	2881335	12
Calcium	B	27.0	0.0800	0.200	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	11/11/25	0709	2895677	13
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	*	185	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Contact: Kevil, Kentucky 42053
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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26
Sample ID: 747587003

Project: FRNP00714
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	11.1	8.95	20.0	mg/L		1	BR2	10/24/25	1458	2885546	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1137	2884203	16
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	ULY1	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	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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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26
Sample ID: 747587003

Project: FRNP00714
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	U	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		1.90	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	LL2	10/17/25	1034	2880577
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	10/28/25	1055	2888208
SW846 3535A	SW3535A PCB SPE Extraction	DG3	11/10/25	1034	2895676
SW846 3005A	ICP-MS 3005A PREP	ES3	10/17/25	1500	2881693

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26
Sample ID: 747587003

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3005A/6020B		
13	SW846 3535A/8082A		
14	EPA 160.1		
15	EPA 410.4		
16	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	6.25 ug/L	6.80	92	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.181 ug/L	0.200	90	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.224 ug/L	0.200	112	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	46.3 ug/L	50.0	93	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	48.6 ug/L	50.0	97	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.2 ug/L	50.0	100	(81%-118%)

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW370UG1-26 Project: FRNP00714
Sample ID: 747587004 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 07:36
Receive Date: 15-OCT-25
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		0.230	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1901	2881050	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26 Project: FRNP00714
Sample ID: 747587005 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 08:38
Receive Date: 15-OCT-25
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	BM1	10/20/25	0355	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.95	0.330	2.00	mg/L		1	KB3	10/17/25	1005	2881621	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1029	2881268	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.12	3.33	10.0	ug/L		1	JW2	10/22/25	1756	2884440	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1913	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/15/25	1518	2880692	6
Chloride	JN	3.51	0.0670	250	mg/L		1					
Fluoride	J	0.205	0.0330	4.00	mg/L		1					
Sulfate		11.1	0.133	0.400	mg/L		1					
Nitrate-N	U	10.0	0.0660	10.0	mg/L		2	CH6	10/16/25	0003	2880692	7
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	10/29/25	1023	2888210	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	BJ	0.0485	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1746	2881335	9
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		0.200	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	0.00111	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0431	0.0330	0.100	mg/L	1.00	1					

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26
Sample ID: 747587005

Project: FRNP00714
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		18.6	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00217	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000302	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00129	0.000600	0.00200	mg/L	1.00	1					
Potassium		0.356	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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					
Tantalum	U	0.00500	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	0.00200	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00424	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00644	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1822	2881335	10
Calcium	B	50.8	0.800	2.00	mg/L	1.00	10	PRB	11/10/25	1308	2881335	11
Sodium		83.6	0.800	2.50	mg/L	1.00	10					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1032	2881335	12
Uranium		0.00237	0.0000670	0.000200	mg/L	1.00	1					
Boron	U	0.0150	0.00520	0.0150	mg/L	1.00	1	PRB	11/10/25	1254	2881335	13
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0996	0.0332	0.0996	ug/L	0.000996	1	NS2	11/11/25	0746	2895677	14
Aroclor-1221	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-1232	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-1242	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-1248	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-1254	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-1260	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-1268	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Aroclor-Total	U	0.0996	0.0332	0.0996	ug/L	0.000996	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	392	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Address : 5600 Hobbs Road

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26
Sample ID: 747587005

Project: FRNP00714
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	11.1	8.95	20.0	mg/L		1	BR2	10/24/25	1458	2885546	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1202	2884203	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		6.92	1.74	5.00	ug/L		1					
Acrolein	ULY1	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	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26
Sample ID: 747587005

Project: FRNP00714
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	U	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 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264
SW846 3005A	ICP-MS 3005A PREP	ES3	10/17/25	1500	2881693
SW846 8011 PREP	8011 Prep	LL2	10/17/25	1034	2880577
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	10/28/25	1055	2888208
SW846 3535A	SW3535A PCB SPE Extraction	DG3	11/10/25	1034	2895676

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Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26
Sample ID: 747587005

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
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 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"	6.66 ug/L	6.80	98	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.165 ug/L	0.199	83	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.164 ug/L	0.199	82	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	46.9 ug/L	50.0	94	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.6 ug/L	50.0	99	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.7 ug/L	50.0	101	(81%-118%)

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW371UG1-26 Project: FRNP00714
Sample ID: 747587006 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 08:38
Receive Date: 15-OCT-25
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		0.208	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1922	2881050	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium		0.00216	0.0000670	0.000200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26 Project: FRNP00714
Sample ID: 747587007 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 09:24
Receive Date: 15-OCT-25
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	BM1	10/20/25	0430	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.09	0.330	2.00	mg/L		1	KB3	10/17/25	1037	2881621	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1030	2881268	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.68	3.33	10.0	ug/L		1	JW2	10/22/25	1831	2884440	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1926	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.468	0.0670	0.200	mg/L		1	CH6	10/15/25	1651	2880692	6
Fluoride	J	0.155	0.0330	4.00	mg/L		1					
Chloride	JN	36.6	0.670	250	mg/L		10	CH6	10/16/25	0034	2880692	7
Nitrate-N	J	1.38	0.330	10.0	mg/L		10					
Sulfate		144	1.33	4.00	mg/L		10					
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	10/29/25	1024	2888210	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	BJ	0.0255	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1749	2881335	9
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		0.0512	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	0.00102	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0790	0.0330	0.100	mg/L	1.00	1					

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26
Sample ID: 747587007

Project: FRNP00714
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		22.5	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.000701	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.09	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00322	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.0104	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1823	2881335	10
Boron		1.21	0.0520	0.150	mg/L	1.00	10	PRB	11/10/25	1311	2881335	11
Calcium	B	63.0	0.800	2.00	mg/L	1.00	10					
Sodium		64.3	0.800	2.50	mg/L	1.00	10					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1034	2881335	12
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0992	0.0330	0.0992	ug/L	0.000992	1	NS2	11/11/25	0759	2895677	13
Aroclor-1221	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1232	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1242	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1248	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1254	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1260	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-1268	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Aroclor-Total	U	0.0992	0.0330	0.0992	ug/L	0.000992	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	449	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	14
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

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Company : Four Rivers Nuclear Partnership, LLC
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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26
Sample ID: 747587007

Project: FRNP00714
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	13.4	8.95	20.0	mg/L		1	BR2	10/24/25	1458	2885546	15
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1227	2884203	16
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	ULY1	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	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26
Sample ID: 747587007

Project: FRNP00714
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	U	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	0.590	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	PB1	10/28/25	1055	2888208
SW846 3535A	SW3535A PCB SPE Extraction	DG3	11/10/25	1034	2895676
SW846 3005A	ICP-MS 3005A PREP	ES3	10/17/25	1500	2881693
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264
SW846 8011 PREP	8011 Prep	LL2	10/17/25	1034	2880577

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Client Sample ID: MW372UG1-26
Sample ID: 747587007

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
7	SW846 9056A		
8	SW846 7470A		
9	SW846 3005A/6020B		
10	SW846 3005A/6020B		
11	SW846 3005A/6020B		
12	SW846 3005A/6020B		
13	SW846 3535A/8082A		
14	EPA 160.1		
15	EPA 410.4		
16	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.95 ug/L	6.78	117	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.171 ug/L	0.198	86	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.218 ug/L	0.198	110	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.1 ug/L	50.0	94	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.6 ug/L	50.0	99	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.8 ug/L	50.0	102	(81%-118%)

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW372UG1-26 Project: FRNP00714
Sample ID: 747587008 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 09:24
Receive Date: 15-OCT-25
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		0.0563	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1925	2881050	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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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Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW373UG1-26
Sample ID: 747587009
Matrix: WG
Collect Date: 14-OCT-25 10:14
Receive Date: 15-OCT-25
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	0.00861	0.0191	ug/L	0.957	1	BM1	10/20/25	0504	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	1.43	0.330	2.00	mg/L		1	KB3	10/17/25	1108	2881621	3
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1031	2881268	4
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	9.53	3.33	10.0	ug/L		1	JW2	10/23/25	1546	2885441	5
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1939	2883458	6
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.436	0.0670	0.200	mg/L		1	CH6	10/15/25	1721	2880692	7
Fluoride	J	0.167	0.0330	4.00	mg/L		1					
Chloride	JN	29.8	0.268	250	mg/L		4	CH6	10/16/25	0104	2880692	8
Nitrate-N	J	0.609	0.132	10.0	mg/L		4					
Sulfate		225	2.66	8.00	mg/L		20	CH6	10/16/25	0308	2880692	9
Mercury Analysis-CVAA												
7470, Mercury Liquid "As Received"												
Mercury	U	0.000200	0.0000670	0.000200	mg/L	1.00	1	JP2	10/29/25	1026	2888210	10
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	BJ	0.0227	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1752	2881335	11
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		0.0271	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	0.000642	0.000300	0.00100	mg/L	1.00	1					
Copper	J	0.00112	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0544	0.0330	0.100	mg/L	1.00	1					

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Client Sample ID: MW373UG1-26
Sample ID: 747587009

Project: FRNP00714
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		29.7	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0631	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00143	0.000600	0.00200	mg/L	1.00	1					
Potassium		2.79	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	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					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00469	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1824	2881335	12
Boron		2.50	0.104	0.300	mg/L	1.00	20	PRB	11/10/25	1315	2881335	13
Calcium	B	80.4	1.60	4.00	mg/L	1.00	20					
Sodium		69.2	1.60	5.00	mg/L	1.00	20					
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1038	2881335	14
Uranium	J	0.0000970	0.0000670	0.000200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.101	0.0335	0.101	ug/L	0.00101	1	NS2	11/11/25	0811	2895677	15
Aroclor-1221	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-1232	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-1242	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-1248	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-1254	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-1260	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-1268	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Aroclor-Total	U	0.101	0.0335	0.101	ug/L	0.00101	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	618	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	16
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW373UG1-26
Sample ID: 747587009

Project: FRNP00714
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	15.7	8.95	20.0	mg/L		1	BR2	10/24/25	1458	2885546	17
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1253	2884203	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	ULY1	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW373UG1-26
Sample ID: 747587009

Project: FRNP00714
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	U	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		2.16	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	DG3	11/10/25	1034	2895676
SW846 8011 PREP	8011 Prep	LL2	10/17/25	1034	2880577
SW846 3005A	ICP-MS 3005A PREP	ES3	10/17/25	1500	2881693
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	10/28/25	1055	2888208

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Sample ID: 747587009

Project: FRNP00714
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 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"	6.83 ug/L	6.83	100	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.156 ug/L	0.201	78	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.210 ug/L	0.201	104	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.5 ug/L	50.0	97	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	49.1 ug/L	50.0	98	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(81%-118%)

Notes:

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Client Sample ID: MW373UG1-26
Sample ID: 747587009

Project: FRNP00714
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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW373UG1-26 Project: FRNP00714
Sample ID: 747587010 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 10:14
Receive Date: 15-OCT-25
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		0.0310	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1928	2881050	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium	J	0.0000910	0.0000670	0.000200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW374UG1-26
Sample ID: 747587011
Matrix: WG
Collect Date: 14-OCT-25 12:24
Receive Date: 15-OCT-25
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	0.00857	0.0190	ug/L	0.952	1	BM1	10/20/25	0538	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average		2.31	0.330	2.00	mg/L		1	KB3	10/17/25	1140	2881621	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1032	2881268	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens		17.1	3.33	10.0	ug/L		1	JW2	10/23/25	1619	2885441	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	1951	2883458	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide		0.469	0.0670	0.200	mg/L		1	CH6	10/15/25	1752	2880692	6
Fluoride	J	0.146	0.0330	4.00	mg/L		1					
Sulfate		19.8	0.133	0.400	mg/L		1					
Chloride	JN	44.6	0.335	250	mg/L		5	CH6	10/16/25	0135	2880692	7
Nitrate-N	J	1.15	0.165	10.0	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	10/29/25	1027	2888210	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	BJ	0.0482	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1755	2881335	9
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		0.127	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	0.000668	0.000300	0.00200	mg/L	1.00	1					
Iron		0.176	0.0330	0.100	mg/L	1.00	1					

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Client Sample ID: MW374UG1-26
Sample ID: 747587011

Project: FRNP00714
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		5.84	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0924	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	J	0.297	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium		0.0140	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00342	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1825	2881335	10
Sodium		116	1.60	5.00	mg/L	1.00	20	PRB	11/10/25	1318	2881335	11
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1039	2881335	12
Uranium		0.000703	0.0000670	0.000200	mg/L	1.00	1					
Boron		0.0519	0.00520	0.0150	mg/L	1.00	1	PRB	11/10/25	1302	2881335	13
Calcium	B	21.7	0.0800	0.200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.102	0.0339	0.102	ug/L	0.00102	1	NS2	11/11/25	0823	2895677	14
Aroclor-1221	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1232	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1242	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1248	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1254	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1260	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-1268	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Aroclor-Total	U	0.102	0.0339	0.102	ug/L	0.00102	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	383	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

GEL LABORATORIES LLC

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW374UG1-26
Sample ID: 747587011

Project: FRNP00714
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	15.7	8.95	20.0	mg/L		1	BR2	10/24/25	1458	2885546	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1318	2884203	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	ULY1	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	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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C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW374UG1-26
Sample ID: 747587011

Project: FRNP00714
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	U	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 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264
SW846 3005A	ICP-MS 3005A PREP	ES3	10/17/25	1500	2881693
SW846 8011 PREP	8011 Prep	LL2	10/17/25	1034	2880577
SW846 3535A	SW3535A PCB SPE Extraction	DG3	11/10/25	1034	2895676
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	10/28/25	1055	2888208

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Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
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 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"	6.54 ug/L	6.80	96	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.155 ug/L	0.204	76	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.141 ug/L	0.204	69	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	46.5 ug/L	50.0	93	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	48.3 ug/L	50.0	97	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(81%-118%)

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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW374UG1-26 Project: FRNP00714
Sample ID: 747587012 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 12:24
Receive Date: 15-OCT-25
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		0.128	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1931	2881050	1
Chromium	U	0.0100	0.00300	0.0100	mg/L	1.00	1					
Uranium		0.000660	0.0000670	0.000200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26 Project: FRNP00714
Sample ID: 747587013 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 13:12
Receive Date: 15-OCT-25
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	0.0194	0.00872	0.0194	ug/L	0.969	1	BM1	10/20/25	0612	2880579	1
Carbon Analysis												
9060A, Total Organic Carbon "As Received"												
Total Organic Carbon Average	J	0.761	0.330	2.00	mg/L		1	KB3	10/17/25	1247	2881621	2
Flow Injection Analysis												
9012B, Cyanide, Total "As Received"												
Cyanide, Total	U	0.200	0.00167	0.200	mg/L	1.00	1	KLP1	10/17/25	1033	2881268	3
Halogen Analysis												
9020B, TOX (Organic Halogen) "As Received"												
Total Organic Halogens	J	8.65	3.33	10.0	ug/L		1	JW2	10/23/25	1713	2885441	4
Ion Chromatography												
300.0, Iodide in Liquid "As Received"												
Iodide	U	0.500	0.167	0.500	mg/L		1	CH6	10/20/25	2056	2883459	5
SW846 9056A Anions (5 elements) "As Received"												
Bromide	U	0.200	0.0670	0.200	mg/L		1	CH6	10/15/25	1823	2880692	6
Chloride	JN	3.31	0.0670	250	mg/L		1					
Fluoride	J	0.257	0.0330	4.00	mg/L		1					
Nitrate-N	J	0.896	0.0660	10.0	mg/L		2	CH6	10/16/25	0206	2880692	7
Sulfate		20.9	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	10/29/25	1033	2888210	8
Metals Analysis-ICP-MS												
6020, Metals (15+ elements) "As Received"												
Aluminum	BJ	0.0404	0.0193	0.0500	mg/L	1.00	1	PRB	11/09/25	1758	2881335	9
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		0.162	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	0.000746	0.000300	0.00200	mg/L	1.00	1					
Iron	J	0.0558	0.0330	0.100	mg/L	1.00	1					

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26
Sample ID: 747587013

Project: FRNP00714
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		5.06	0.0100	0.0300	mg/L	1.00	1					
Manganese	J	0.00193	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	0.00100	0.000200	0.00100	mg/L	1.00	1					
Nickel	J	0.00102	0.000600	0.00200	mg/L	1.00	1					
Potassium	J	0.254	0.0800	0.300	mg/L	1.00	1					
Rhodium	U	0.00500	0.00160	0.00500	mg/L	1.00	1					
Selenium	J	0.00187	0.00150	0.00500	mg/L	1.00	1					
Silver	U	0.00100	0.000300	0.00100	mg/L	1.00	1					
Tantalum	U	0.00500	0.00100	0.00500	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	0.00440	0.00330	0.0200	mg/L	1.00	1	PRB	11/05/25	1827	2881335	10
Sodium		50.5	0.800	2.50	mg/L	1.00	10	PRB	11/10/25	1321	2881335	11
Beryllium	U	0.000500	0.000200	0.000500	mg/L	1.00	1	PRB	11/10/25	1040	2881335	12
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					
Boron	J	0.0138	0.00520	0.0150	mg/L	1.00	1	PRB	11/10/25	1305	2881335	13
Calcium	B	13.1	0.0800	0.200	mg/L	1.00	1					
Semi-Volatiles-PCB												
8082A, PCB Liquids "As Received"												
Aroclor-1016	U	0.0977	0.0326	0.0977	ug/L	0.000977	1	NS2	11/11/25	1117	2895677	14
Aroclor-1221	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-1232	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-1242	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-1248	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-1254	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-1260	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-1268	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Aroclor-Total	U	0.0977	0.0326	0.0977	ug/L	0.000977	1					
Solids Analysis												
160.1, Dissolved Solids "As Received"												
Total Dissolved Solids	*	194	2.38	10.0	mg/L			SC1	10/18/25	1348	2881556	15
Spectrometric Analysis												
410.4, Chem. Oxygen Demand "As Received"												

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Certificate of Analysis

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Address : 5600 Hobbs Road

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26
Sample ID: 747587013

Project: FRNP00714
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	10/24/25	1459	2885546	16
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1344	2884203	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	ULY1	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	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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26
Sample ID: 747587013

Project: FRNP00714
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	U	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 3005A	ICP-MS 3005A PREP	ES3	10/17/25	1500	2881693
SW846 3535A	SW3535A PCB SPE Extraction	DG3	11/10/25	1034	2895676
SW846 8011 PREP	8011 Prep	LL2	10/17/25	1034	2880577
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	10/28/25	1055	2888208
SW846 9010C Distillation	SW846 9010C Prep	CH9	10/16/25	1512	2881264

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26
Sample ID: 747587013

Project: FRNP00714
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 9060A		
3	SW846 9012B		
4	SW846 9020B		
5	EPA 300.0		
6	SW846 9056A		
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 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"	8.10 ug/L	6.92	117	(56%-149%)
4cmx	8082A, PCB Liquids "As Received"	0.170 ug/L	0.195	87	(26%-108%)
Decachlorobiphenyl	8082A, PCB Liquids "As Received"	0.165 ug/L	0.195	85	(30%-135%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	45.9 ug/L	50.0	92	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	48.4 ug/L	50.0	97	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.4 ug/L	50.0	101	(81%-118%)

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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW375UG1-26 Project: FRNP00714
Sample ID: 747587014 Client ID: FRNP007
Matrix: WG
Collect Date: 14-OCT-25 13:12
Receive Date: 15-OCT-25
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		0.163	0.000670	0.00400	mg/L	1.00	1	BB2	10/24/25	1934	2881050	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					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	10/17/25	0925	2881049
EPA 160	Laboratory Filtration	LF1	10/15/25	1330	2880934

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB3UG1-26 Project: FRNP00714
Sample ID: 747587015 Client ID: FRNP007
Matrix: WATER
Collect Date: 14-OCT-25 06:05
Receive Date: 15-OCT-25
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	BM1	10/20/25	0646	2880579	1
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	AXH5	10/21/25	1409	2884203	2
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	ULY1	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB3UG1-26
Sample ID: 747587015

Project: FRNP00714
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	U	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	LL2	10/17/25	1034	2880577

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8011	
2	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1-Chloro-2-fluorobenzene	8011 VOA- 1,2-Dibromo-3-chloropropane "As Received"	7.25 ug/L	6.80	107	(56%-149%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.9 ug/L	50.0	96	(85%-114%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	51.1 ug/L	50.0	102	(81%-118%)

Notes:

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB3UG1-26
Sample ID: 747587015

Project: FRNP00714
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 C4

GEL LABORATORIES CERTIFICATE OF ANALYSIS

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26R
Sample ID: 749880001
Matrix: WG
Collect Date: 29-OCT-25 08:52
Receive Date: 30-OCT-25
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	11/04/25	1404	2892505	1
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	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW363UG1-26R
Sample ID: 749880001

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Volatile Organics											
8260D, Volatiles- full suite "As Received"											
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 Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 8260D					
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits	
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.4 ug/L	50.0	99	(85%-114%)	
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(81%-118%)	
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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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26R
Sample ID: 749880002
Matrix: WG
Collect Date: 29-OCT-25 09:22
Receive Date: 30-OCT-25
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	11/04/25	1431	2892505	1
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	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW365UG1-26R
Sample ID: 749880002

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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 Analytical Methods were performed:

Method	Description	Analyst Comments			
1	SW846 8260D				
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	49.3 ug/L	50.0	99	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.2 ug/L	50.0	100	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(89%-112%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26R Project: FRNP00714
Sample ID: 749880003 Client ID: FRNP007
Matrix: WG
Collect Date: 29-OCT-25 09:57
Receive Date: 30-OCT-25
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	11/04/25	1459	2892505	1
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	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367DUG1-26R
Sample ID: 749880003

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
Toluene	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					
Trichloroethylene	U	1.00	0.333	1.00	ug/L		1	PXY1	11/05/25	1230	2892505	2

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	47.8 ug/L	50.0	96	(85%-114%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(81%-118%)
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(89%-112%)
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	49.3 ug/L	50.0	99	(81%-118%)
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	48.3 ug/L	50.0	97	(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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26R
Sample ID: 749880004
Matrix: WG
Collect Date: 29-OCT-25 09:57
Receive Date: 30-OCT-25
Collector: Client

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	11/04/25	1526	2892505	1
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	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: MW367UG1-26R
Sample ID: 749880004

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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 Analytical Methods were performed:

Method	Description	Analyst Comments					
1	SW846 8260D						
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits		
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.3 ug/L	50.0	101	(85%-114%)		
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.8 ug/L	50.0	102	(81%-118%)		
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.8 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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID:	TB4UG1-26	Project:	FRNP00714
Sample ID:	749880005	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	29-OCT-25 07:30		
Receive Date:	30-OCT-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
1,1,1,2-Tetrachloroethane	U	1.00	0.333	1.00	ug/L		1	PXY1	11/04/25	1553	2892505	1
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	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	U	1.00	0.333	1.00	ug/L		1					
Iodomethane	U	5.00	1.67	5.00	ug/L		1					
Methylene chloride	U	5.00	0.500	5.00	ug/L		1					
Styrene	U	1.00	0.333	1.00	ug/L		1					
Tetrachloroethylene	U	1.00	0.333	1.00	ug/L		1					

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Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Quarterly(UG26-01)

Client Sample ID: TB4UG1-26
Sample ID: 749880005

Project: FRNP00714
Client ID: FRNP007

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
8260D, Volatiles- full suite "As Received"												
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 Analytical Methods were performed:

Method	Description	Analyst Comments					
1	SW846 8260D						
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits		
Bromofluorobenzene	8260D, Volatiles- full suite "As Received"	50.0 ug/L	50.0	100	(85%-114%)		
1,2-Dichloroethane-d4	8260D, Volatiles- full suite "As Received"	50.6 ug/L	50.0	101	(81%-118%)		
Toluene-d8	8260D, Volatiles- full suite "As Received"	50.9 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

APPENDIX D

**STATISTICAL ANALYSES AND
QUALIFICATION STATEMENT**

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GROUNDWATER STATISTICAL COMMENTS

Introduction

The statistical analyses conducted on the fourth quarter 2025 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 fourth quarter 2025 data used to conduct the statistical analyses were collected in October 2025. 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	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 $CV \leq 1.0$, 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 URGAs, and the LRGAs, 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, fourth quarter 2025. 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: $UTL = X + (K \times S)$ and $LTL = X - (K \times S)$.

Exhibit D.2. List of Parameters Tested Using the One-Sided Upper Tolerance Level Test with Historical Background

Parameters
Acetone
Aluminum
Boron
Bromide
Calcium
Chemical Oxygen Demand (COD)
Chloride
Cobalt
Conductivity
Copper
Dissolved Oxygen
Dissolved Solids
Iron
Magnesium
Manganese
Methylene Chloride
Molybdenum
Nickel
Oxidation-Reduction Potential ^a
pH ^b
Potassium
Radium-226
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	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	5	1	Yes
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	3	3	Yes
Bromide	6	5	1	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
Chemical Oxygen Demand (COD)	6	4	2	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
<i>cis</i> -1,2-Dichloroethene	6	6	0	No
<i>cis</i> -1,3-Dichloropropene	6	6	0	No
Cobalt	6	5	1	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
Dimethylbenzene, Total	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	1	5	Yes
Magnesium	6	0	6	Yes
Manganese	6	0	6	Yes
Methylene chloride	6	4	2	Yes
Molybdenum	6	3	3	Yes
Nickel	6	1	5	Yes
Oxidation-Reduction Potential	6	0	6	Yes

Exhibit D.3. Summary of Censored and Uncensored Data—UCRS (Continued)

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
PCB, Total	6	6	0	No
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	6	0	No
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
<i>trans</i> -1,2-Dichloroethene	6	6	0	No
<i>trans</i> -1,3-Dichloropropene	6	6	0	No
<i>trans</i> -1,4-Dichloro-2-Butene	6	6	0	No
Trichlorofluoromethane	6	6	0	No
Vanadium	6	4	2	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.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	4	2	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
Chemical Oxygen Demand (COD)	6	4	2	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
<i>cis</i> -1,2-Dichloroethene	6	6	0	No
<i>cis</i> -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
Dimethylbenzene, Total	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	0	6	Yes
Methylene chloride	6	3	3	Yes
Molybdenum	6	6	0	No
Nickel	6	1	5	Yes
Oxidation-Reduction Potential	6	0	6	Yes

Exhibit D.4. Summary of Censored and Uncensored Data—URGA (Continued)

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
PCB, Total	6	6	0	No
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	1	5	Yes
<i>trans</i> -1,2-Dichloroethene	6	6	0	No
<i>trans</i> -1,3-Dichloropropene	6	6	0	No
<i>trans</i> -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.

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
Chemical Oxygen Demand (COD)	6	4	2	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
<i>cis</i> -1,2-Dichloroethene	6	6	0	No
<i>cis</i> -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
Dimethylbenzene, Total	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	3	3	Yes
Molybdenum	6	6	0	No
Nickel	6	3	3	Yes
Oxidation-Reduction Potential	6	0	6	Yes

Exhibit D.5. Summary of Censored and Uncensored Data—LRGA (Continued)

Parameters	Observations	Censored Observation	Uncensored Observation	Statistical Analysis?
PCB, Total	6	6	0	No
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	5	1	Yes
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	4	2	Yes
<i>trans</i> -1,2-Dichloroethene	6	6	0	No
<i>trans</i> -1,3-Dichloropropene	6	6	0	No
<i>trans</i> -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, URGAs, 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, URGAs, and LRGA, the test was applied to 27, 25, and 26 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 derived historical 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 oxygen, dissolved solids, magnesium, oxidation-reduction potential, sulfate, and technetium-99.

LRGA

This quarter's results identified historical background exceedances for calcium, conductivity, dissolved oxygen, oxidation-reduction potential, and technetium-99.

Statistical Summary

Summaries of the results of the statistical tests conducted on data obtained from wells in the UCRS, the URGAs, 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 MW368: 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: Dissolved oxygen, oxidation-reduction potential,* and technetium-99 MW369: Oxidation-reduction potential* and technetium-99 MW372: Calcium, conductivity, dissolved solids, magnesium, oxidation-reduction potential,* sulfate, and technetium-99	MW358: Dissolved oxygen and oxidation-reduction potential* MW361: Dissolved oxygen, oxidation-reduction potential,* and technetium-99 MW364: Dissolved oxygen, oxidation-reduction potential,* and technetium-99 MW367: Dissolved oxygen and oxidation-reduction potential* MW370: Dissolved oxygen and oxidation-reduction potential* MW373: Calcium, conductivity, and oxidation-reduction potential*

*Oxidation-reduction potential calibrated as Eh.

Exhibit D.7. Test Summaries for Qualified Parameters for Historical Background—UCRS

Parameter	Performed Test	CV Normality Test^a	Results of Tolerance Interval Test Conducted
Acetone	Tolerance Interval	2.24	No exceedance of statistically derived historical background concentration.
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.
COD	Tolerance Interval	0.97	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.
Methylene Chloride	Tolerance Interval	0.29	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, MW368, 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, MW368, MW374, and MW375.
TOC	Tolerance Interval	1.38	No exceedance of statistically derived historical background concentration.

Exhibit D.7. Test Summaries for Qualified Parameters for Historical Background—UCRS (Continued)

Parameter	Performed Test	CV Normality Test^a	Results of Tolerance Interval Test Conducted
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 Qualified 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.
Chemical Oxygen Demand (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	Current results exceed statistically derived historical background concentration in MW366.
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.
Methylene Chloride	Tolerance Interval	0.36	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, MW369, and MW372.
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.
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 Qualified 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.
Chemical Oxygen Demand (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	Current results exceed statistically derived historical background concentration in MW373.
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 MW358, MW361, MW364, MW367, and MW370.
Dissolved Solids	Tolerance Interval	0.30	No exceedance of statistically derived historical background concentration.
Iron	Tolerance Interval	0.96	No exceedance of statistically derived historical background concentration.
Magnesium	Tolerance Interval	0.34	No exceedance of statistically derived historical background concentration.
Manganese	Tolerance Interval	0.62	No exceedance of statistically derived historical background concentration.
Methylene Chloride	Tolerance Interval	0.40	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	No exceedance of statistically derived historical background concentration.
Potassium	Tolerance Interval	0.18	No exceedance of statistically derived historical background concentration.
Radium-226	Tolerance Interval	2.66	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, URGAs, 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, URGAs, and LRGA, the test was applied to 3, 8, and 5 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 a current background UTL exceedance in downgradient wells for sulfate.

URGA

This quarter's results identified a current background UTL exceedance in one downgradient URGAs well for dissolved oxygen.

LRGA

This quarter's results identified current background UTL exceedances in downgradient LRGA wells for dissolved oxygen and technetium-99.

Statistical Summary

Summaries of the statistical tests conducted on data obtained from wells in the UCRS, the URGAs, and the LRGA are presented in Exhibit D.10, Exhibit D.11, and Exhibit D.12, respectively.

Exhibit D.10. Test Summaries for Qualified Parameters for Current Background—UCRS

Parameter	Performed Test	CV Normality Test	Results of Tolerance Interval Test Conducted
Dissolved Oxygen	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	0.11	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	0.48	MW365 and MW368 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 Qualified 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 Oxygen	Tolerance Interval	0.37	MW366 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Dissolved Solids	Tolerance Interval	0.41	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	0.56	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	0.11	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	0.55	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 calibrated as Eh.

Exhibit D.12. Test Summaries for Qualified Parameters for Current Background—LRGA

Parameter	Performed Test	CV Normality Test	Results of Tolerance Interval Test Conducted
Calcium	Tolerance Interval	0.51	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	0.38	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	MW367 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.
Oxidation-Reduction Potential*	Tolerance Interval	0.16	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	1.17	MW361 and MW364 exceeded the UTL, which is evidence of elevated concentration with respect to current background data.

*Oxidation-reduction potential calibrated as Eh.

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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 Fourth Quarter 2025 Statistical Analysis Historical Background Comparison

Acetone

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. 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. 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= 49.938 S= 111.751 CV(1)=2.238 K factor**= 2.523 TL(1)= 3.32E+02 LL(1)=N/A

Statistics-Transformed Background Data X= 2.847 S= 1.149 CV(2)=0.404 K factor**= 2.523 TL(2)= 5.75E+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	1.80E+01	2.89E+00
4/22/2002	1.00E+01	2.30E+00
7/15/2002	1.00E+01	2.30E+00
10/8/2002	1.50E+01	2.71E+00
1/8/2003	1.00E+01	2.30E+00
4/3/2003	1.00E+01	2.30E+00
7/9/2003	1.00E+01	2.30E+00
10/6/2003	1.00E+01	2.30E+00

Well Number: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.00E+02	5.30E+00
1/7/2003	2.60E+01	3.26E+00
4/2/2003	1.00E+01	2.30E+00
7/9/2003	1.00E+01	2.30E+00
10/7/2003	4.30E+02	6.06E+00
1/6/2004	1.00E+01	2.30E+00
4/7/2004	1.00E+01	2.30E+00
7/14/2004	1.00E+01	2.30E+00

Dry/Partially Dry Wells

Well No. Gradient

MW359	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	No	5.00E+00	N/A	1.61E+00	N/A
MW365	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW368	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW371	Upgradient	Yes	6.92E+00	N/A	1.93E+00	NO
MW374	Upgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW375	Sidegradient	No	5.00E+00	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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
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	1.32E-01	N/A	-2.02E+00	NO
MW365	Downgradient	Yes	2.23E-02	N/A	-3.80E+00	NO
MW368	Downgradient	Yes	4.80E-01	N/A	-7.34E-01	NO
MW371	Upgradient	No	4.85E-02	N/A	-3.03E+00	N/A
MW374	Upgradient	No	4.82E-02	N/A	-3.03E+00	N/A
MW375	Sidegradient	No	4.04E-02	N/A	-3.21E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	2.49E-02	N/A	-3.69E+00	NO
MW365	Downgradient	No	1.50E-02	N/A	-4.20E+00	N/A
MW368	Downgradient	No	1.50E-02	N/A	-4.20E+00	N/A
MW371	Upgradient	No	1.50E-02	N/A	-4.20E+00	N/A
MW374	Upgradient	Yes	5.19E-02	N/A	-2.96E+00	NO
MW375	Sidegradient	Yes	1.38E-02	N/A	-4.28E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	No	2.00E-01	N/A	-1.61E+00	N/A
MW365	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW368	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	4.69E-01	NO	-7.57E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	1.80E+01	NO	2.89E+00	N/A
MW365	Downgradient	Yes	1.79E+01	NO	2.88E+00	N/A
MW368	Downgradient	Yes	5.27E+01	NO	3.96E+00	N/A
MW371	Upgradient	Yes	5.08E+01	NO	3.93E+00	N/A
MW374	Upgradient	Yes	2.17E+01	NO	3.08E+00	N/A
MW375	Sidegradient	Yes	1.31E+01	NO	2.57E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis Historical Background Comparison

Chemical Oxygen Demand (COD)

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. 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. 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= 72.938 S= 70.749 CV(1)=0.970 K factor**= 2.523 TL(1)= 2.51E+02 LL(1)=N/A

Statistics-Transformed Background Data X= 4.000 S= 0.702 CV(2)=0.175 K factor**= 2.523 TL(2)= 5.77E+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	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	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: MW374

Date Collected	Result	LN(Result)
10/8/2002	2.60E+02	5.56E+00
1/7/2003	2.14E+02	5.37E+00
4/2/2003	1.47E+02	4.99E+00
7/9/2003	7.20E+01	4.28E+00
10/7/2003	5.60E+01	4.03E+00
1/6/2004	6.80E+01	4.22E+00
4/7/2004	3.50E+01	3.56E+00
7/14/2004	3.50E+01	3.56E+00

Dry/Partially Dry Wells

Well No. Gradient

MW359	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	No	2.00E+01	N/A	3.00E+00	N/A
MW365	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW368	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW371	Upgradient	Yes	1.11E+01	NO	2.41E+00	N/A
MW374	Upgradient	Yes	1.57E+01	NO	2.75E+00	N/A
MW375	Sidegradient	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	1.61E+00	NO	4.76E-01	N/A
MW365	Downgradient	Yes	1.84E+00	NO	6.10E-01	N/A
MW368	Downgradient	Yes	1.88E+00	NO	6.31E-01	N/A
MW371	Upgradient	Yes	3.51E+00	NO	1.26E+00	N/A
MW374	Upgradient	Yes	4.46E+01	NO	3.80E+00	N/A
MW375	Sidegradient	Yes	3.31E+00	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	No	1.00E-03	N/A	-6.91E+00	N/A
MW365	Downgradient	Yes	1.10E-03	N/A	-6.81E+00	NO
MW368	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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
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	6.40E+02	NO	6.46E+00	N/A
MW365	Downgradient	Yes	3.49E+02	NO	5.86E+00	N/A
MW368	Downgradient	Yes	5.70E+02	NO	6.35E+00	N/A
MW371	Upgradient	Yes	6.90E+02	NO	6.54E+00	N/A
MW374	Upgradient	Yes	7.03E+02	NO	6.56E+00	N/A
MW375	Sidegradient	Yes	3.36E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	1.17E-03	N/A	-6.75E+00	NO
MW365	Downgradient	Yes	2.41E-03	N/A	-6.03E+00	NO
MW368	Downgradient	Yes	8.83E-04	N/A	-7.03E+00	NO
MW371	Upgradient	Yes	1.11E-03	N/A	-6.80E+00	NO
MW374	Upgradient	Yes	6.68E-04	N/A	-7.31E+00	NO
MW375	Sidegradient	Yes	7.46E-04	N/A	-7.20E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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
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	4.00E+00	YES	1.39E+00	N/A
MW365	Downgradient	Yes	4.58E+00	YES	1.52E+00	N/A
MW368	Downgradient	Yes	1.71E+00	NO	5.36E-01	N/A
MW371	Upgradient	Yes	3.33E+00	YES	1.20E+00	N/A
MW374	Upgradient	Yes	2.07E+00	NO	7.28E-01	N/A
MW375	Sidegradient	Yes	1.90E+00	NO	6.42E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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
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	3.80E+02	NO	5.94E+00	N/A
MW365	Downgradient	Yes	1.83E+02	NO	5.21E+00	N/A
MW368	Downgradient	Yes	3.69E+02	NO	5.91E+00	N/A
MW371	Upgradient	Yes	3.92E+02	NO	5.97E+00	N/A
MW374	Upgradient	Yes	3.83E+02	NO	5.95E+00	N/A
MW375	Sidegradient	Yes	1.94E+02	NO	5.27E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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
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	9.73E-02	NO	-2.33E+00	N/A
MW365	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW368	Downgradient	Yes	2.76E-01	NO	-1.29E+00	N/A
MW371	Upgradient	Yes	4.31E-02	NO	-3.14E+00	N/A
MW374	Upgradient	Yes	1.76E-01	NO	-1.74E+00	N/A
MW375	Sidegradient	Yes	5.58E-02	NO	-2.89E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	7.67E+00	NO	2.04E+00	N/A
MW365	Downgradient	Yes	8.05E+00	NO	2.09E+00	N/A
MW368	Downgradient	Yes	1.30E+01	NO	2.56E+00	N/A
MW371	Upgradient	Yes	1.86E+01	NO	2.92E+00	N/A
MW374	Upgradient	Yes	5.84E+00	NO	1.76E+00	N/A
MW375	Sidegradient	Yes	5.06E+00	NO	1.62E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

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
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	1.01E-02	NO	-4.60E+00	N/A
MW365	Downgradient	Yes	6.14E-03	NO	-5.09E+00	N/A
MW368	Downgradient	Yes	8.56E-03	NO	-4.76E+00	N/A
MW371	Upgradient	Yes	2.17E-03	NO	-6.13E+00	N/A
MW374	Upgradient	Yes	9.24E-02	NO	-2.38E+00	N/A
MW375	Sidegradient	Yes	1.93E-03	NO	-6.25E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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Methylene chloride

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. 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. 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= 5.125 S= 1.500 CV(1)=0.293 K factor**= 2.523 TL(1)= 8.91E+00 LL(1)=N/A

Statistics-Transformed Background Data X= 1.595 S= 0.296 CV(2)=0.186 K factor**= 2.523 TL(2)= 2.34E+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	5.00E+00	1.61E+00
7/15/2002	1.00E+01	2.30E+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	5.00E+00	1.61E+00
10/7/2003	5.00E+00	1.61E+00
1/6/2004	5.00E+00	1.61E+00
4/7/2004	5.00E+00	1.61E+00
7/14/2004	5.00E+00	1.61E+00

Dry/Partially Dry Wells

Well No. Gradient

MW359	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	1.62E+00	NO	4.82E-01	N/A
MW365	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW368	Downgradient	Yes	7.30E-01	NO	-3.15E-01	N/A
MW371	Upgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW374	Upgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW375	Sidegradient	No	5.00E+00	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

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
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	8.07E-04	N/A	-7.12E+00	NO
MW365	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW368	Downgradient	Yes	5.51E-04	N/A	-7.50E+00	NO
MW371	Upgradient	Yes	3.02E-04	N/A	-8.11E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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
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	7.04E-04	NO	-7.26E+00	N/A
MW365	Downgradient	Yes	5.45E-03	NO	-5.21E+00	N/A
MW368	Downgradient	Yes	7.93E-04	NO	-7.14E+00	N/A
MW371	Upgradient	Yes	1.29E-03	NO	-6.65E+00	N/A
MW374	Upgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW375	Sidegradient	Yes	1.02E-03	NO	-6.89E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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
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 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	4.81E+02	N/A	6.18E+00	YES
MW365	Downgradient	Yes	4.77E+02	N/A	6.17E+00	YES
MW368	Downgradient	Yes	2.80E+02	N/A	5.63E+00	YES
MW371	Upgradient	Yes	5.02E+02	N/A	6.22E+00	YES
MW374	Upgradient	Yes	4.96E+02	N/A	6.21E+00	YES
MW375	Sidegradient	Yes	5.01E+02	N/A	6.22E+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
MW368
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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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
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	6.85E+00	NO	1.92E+00	N/A
MW365	Downgradient	Yes	6.20E+00	NO	1.82E+00	N/A
MW368	Downgradient	Yes	6.26E+00	NO	1.83E+00	N/A
MW371	Upgradient	Yes	6.44E+00	NO	1.86E+00	N/A
MW374	Upgradient	Yes	6.67E+00	NO	1.90E+00	N/A
MW375	Sidegradient	Yes	6.40E+00	NO	1.86E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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
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	2.21E-01	NO	-1.51E+00	N/A
MW368	Downgradient	Yes	4.38E-01	NO	-8.26E-01	N/A
MW371	Upgradient	Yes	3.56E-01	NO	-1.03E+00	N/A
MW374	Upgradient	Yes	2.97E-01	NO	-1.21E+00	N/A
MW375	Sidegradient	Yes	2.54E-01	NO	-1.37E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

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
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	1.12E+02	NO	4.72E+00	N/A
MW365	Downgradient	Yes	4.47E+01	NO	3.80E+00	N/A
MW368	Downgradient	Yes	5.69E+01	NO	4.04E+00	N/A
MW371	Upgradient	Yes	8.36E+01	NO	4.43E+00	N/A
MW374	Upgradient	Yes	1.16E+02	NO	4.75E+00	N/A
MW375	Sidegradient	Yes	5.05E+01	NO	3.92E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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. 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. 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

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
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	3.30E+01	YES	3.50E+00	N/A
MW365	Downgradient	Yes	5.19E+01	YES	3.95E+00	N/A
MW368	Downgradient	Yes	9.48E+01	YES	4.55E+00	N/A
MW371	Upgradient	Yes	1.11E+01	NO	2.41E+00	N/A
MW374	Upgradient	Yes	1.98E+01	YES	2.99E+00	N/A
MW375	Sidegradient	Yes	2.09E+01	YES	3.04E+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

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
MW368
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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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. 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. 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

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
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	2.10E+00	N/A	7.42E-01	NO
MW365	Downgradient	Yes	1.42E+00	N/A	3.51E-01	NO
MW368	Downgradient	Yes	1.20E+00	N/A	1.82E-01	NO
MW371	Upgradient	Yes	1.95E+00	N/A	6.68E-01	NO
MW374	Upgradient	Yes	2.31E+00	N/A	8.37E-01	NO
MW375	Sidegradient	Yes	7.61E-01	N/A	-2.73E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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. 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. 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
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	1.16E+01	N/A	2.45E+00	NO
MW365	Downgradient	Yes	1.48E+01	N/A	2.69E+00	NO
MW368	Downgradient	No	1.00E+01	N/A	2.30E+00	N/A
MW371	Upgradient	Yes	8.12E+00	N/A	2.09E+00	NO
MW374	Upgradient	Yes	1.71E+01	N/A	2.84E+00	NO
MW375	Sidegradient	Yes	8.65E+00	N/A	2.16E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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. 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. 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

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
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	No	2.00E-02	N/A	-3.91E+00	N/A
MW365	Downgradient	No	2.00E-02	N/A	-3.91E+00	N/A
MW368	Downgradient	Yes	4.03E-03	N/A	-5.51E+00	NO
MW371	Upgradient	Yes	4.24E-03	N/A	-5.46E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis Historical Background Comparison

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. 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. 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

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
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	4.69E-03	N/A	-5.36E+00	NO
MW365	Downgradient	No	5.72E-03	N/A	-5.16E+00	N/A
MW368	Downgradient	No	4.83E-03	N/A	-5.33E+00	N/A
MW371	Upgradient	Yes	6.44E-03	N/A	-5.05E+00	NO
MW374	Upgradient	Yes	3.42E-03	N/A	-5.68E+00	NO
MW375	Sidegradient	Yes	4.40E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

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	4.05E-02	N/A	-3.21E+00	NO
MW363	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW366	Downgradient	No	5.00E-02	N/A	-3.00E+00	N/A
MW369	Upgradient	Yes	1.85E-01	N/A	-1.69E+00	NO
MW372	Upgradient	No	2.55E-02	N/A	-3.67E+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

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, $S = \sqrt{\text{Sum}([(background\ result - X)^2] / [\text{count of background results} - 1])}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results}) / (\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	Yes	3.35E-01	NO	-1.09E+00	N/A
MW360	Downgradient	Yes	2.15E-02	NO	-3.84E+00	N/A
MW363	Downgradient	Yes	2.62E-02	NO	-3.64E+00	N/A
MW366	Downgradient	Yes	1.27E-01	NO	-2.06E+00	N/A
MW369	Upgradient	Yes	1.98E-02	NO	-3.92E+00	N/A
MW372	Upgradient	Yes	1.21E+00	NO	1.91E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	Yes	3.34E-01	NO	-1.10E+00	N/A
MW360	Downgradient	Yes	1.41E-01	NO	-1.96E+00	N/A
MW363	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW366	Downgradient	Yes	5.04E-01	NO	-6.85E-01	N/A
MW369	Upgradient	Yes	3.28E-01	NO	-1.11E+00	N/A
MW372	Upgradient	Yes	4.68E-01	NO	-7.59E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	2.31E+01	NO	3.14E+00	N/A
MW360	Downgradient	Yes	1.76E+01	NO	2.87E+00	N/A
MW363	Downgradient	Yes	2.01E+01	NO	3.00E+00	N/A
MW366	Downgradient	Yes	3.43E+01	NO	3.54E+00	N/A
MW369	Upgradient	Yes	1.68E+01	NO	2.82E+00	N/A
MW372	Upgradient	Yes	6.30E+01	YES	4.14E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	No	2.00E+01	N/A	3.00E+00	N/A
MW366	Downgradient	No	2.00E+01	N/A	3.00E+00	N/A
MW369	Upgradient	Yes	1.11E+01	NO	2.41E+00	N/A
MW372	Upgradient	Yes	1.34E+01	NO	2.60E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	Yes	3.03E+01	NO	3.41E+00	N/A
MW360	Downgradient	Yes	5.74E+00	NO	1.75E+00	N/A
MW363	Downgradient	Yes	1.78E+01	NO	2.88E+00	N/A
MW366	Downgradient	Yes	4.16E+01	NO	3.73E+00	N/A
MW369	Upgradient	Yes	2.80E+01	NO	3.33E+00	N/A
MW372	Upgradient	Yes	3.66E+01	NO	3.60E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW360	Downgradient	Yes	5.38E-04	NO	-7.53E+00	N/A
MW363	Downgradient	Yes	6.16E-04	NO	-7.39E+00	N/A
MW366	Downgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW369	Upgradient	Yes	5.84E-03	NO	-5.14E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	4.30E+02	NO	6.06E+00	N/A
MW360	Downgradient	Yes	3.89E+02	NO	5.96E+00	N/A
MW363	Downgradient	Yes	3.46E+02	NO	5.85E+00	N/A
MW366	Downgradient	Yes	5.05E+02	NO	6.22E+00	N/A
MW369	Upgradient	Yes	3.60E+02	NO	5.89E+00	N/A
MW372	Upgradient	Yes	8.03E+02	YES	6.69E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	1.11E-03	NO	-6.80E+00	N/A
MW360	Downgradient	Yes	2.28E-03	NO	-6.08E+00	N/A
MW363	Downgradient	Yes	1.77E-03	NO	-6.34E+00	N/A
MW366	Downgradient	Yes	1.69E-03	NO	-6.38E+00	N/A
MW369	Upgradient	Yes	1.85E-03	NO	-6.29E+00	N/A
MW372	Upgradient	Yes	1.02E-03	NO	-6.89E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	Yes	4.92E+00	NO	1.59E+00	N/A
MW360	Downgradient	Yes	2.72E+00	NO	1.00E+00	N/A
MW363	Downgradient	Yes	3.40E+00	NO	1.22E+00	N/A
MW366	Downgradient	Yes	6.50E+00	YES	1.87E+00	N/A
MW369	Upgradient	Yes	4.13E+00	NO	1.42E+00	N/A
MW372	Upgradient	Yes	1.97E+00	NO	6.78E-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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	2.13E+02	NO	5.36E+00	N/A
MW360	Downgradient	Yes	2.09E+02	NO	5.34E+00	N/A
MW363	Downgradient	Yes	1.95E+02	NO	5.27E+00	N/A
MW366	Downgradient	Yes	2.07E+02	NO	5.33E+00	N/A
MW369	Upgradient	Yes	1.77E+02	NO	5.18E+00	N/A
MW372	Upgradient	Yes	4.49E+02	YES	6.11E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	5.74E-02	NO	-2.86E+00	N/A
MW363	Downgradient	No	1.00E-01	N/A	-2.30E+00	N/A
MW366	Downgradient	Yes	5.82E-02	NO	-2.84E+00	N/A
MW369	Upgradient	Yes	2.39E-01	NO	-1.43E+00	N/A
MW372	Upgradient	Yes	7.90E-02	NO	-2.54E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

**Historical Background Data from
Upgradient Wells with Transformed Result**

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	9.85E+00	NO	2.29E+00	N/A
MW360	Downgradient	Yes	7.31E+00	NO	1.99E+00	N/A
MW363	Downgradient	Yes	7.89E+00	NO	2.07E+00	N/A
MW366	Downgradient	Yes	1.47E+01	NO	2.69E+00	N/A
MW369	Upgradient	Yes	6.46E+00	NO	1.87E+00	N/A
MW372	Upgradient	Yes	2.25E+01	YES	3.11E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	Yes	2.82E-03	NO	-5.87E+00	N/A
MW360	Downgradient	Yes	5.30E-03	NO	-5.24E+00	N/A
MW363	Downgradient	Yes	7.38E-02	NO	-2.61E+00	N/A
MW366	Downgradient	Yes	6.78E-03	NO	-4.99E+00	N/A
MW369	Upgradient	Yes	2.63E-02	NO	-3.64E+00	N/A
MW372	Upgradient	Yes	1.25E-03	NO	-6.68E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis Historical Background Comparison

Methylene chloride

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. 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. 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= 5.438 S= 1.931 CV(1)=0.355 K factor**= 2.523 TL(1)= 1.03E+01 LL(1)=N/A

Statistics-Transformed Background Data X= 1.639 S= 0.345 CV(2)=0.211 K factor**= 2.523 TL(2)= 2.51E+00 LL(2)=N/A

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369

Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/22/2002	5.00E+00	1.61E+00
7/15/2002	1.00E+01	2.30E+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
7/8/2003	5.00E+00	1.61E+00
10/6/2003	5.00E+00	1.61E+00

Well Number: MW372

Date Collected	Result	LN(Result)
3/19/2002	5.00E+00	1.61E+00
4/23/2002	5.00E+00	1.61E+00
7/16/2002	1.00E+01	2.30E+00
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	5.00E+00	1.61E+00
10/7/2003	5.00E+00	1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result > TL(1)?	LN(Result)	LN(Result) > TL(2)
MW357	Downgradient	Yes	9.70E-01	NO	-3.05E-02	N/A
MW360	Downgradient	Yes	1.29E+00	NO	2.55E-01	N/A
MW363	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW366	Downgradient	Yes	6.30E-01	NO	-4.62E-01	N/A
MW369	Upgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW372	Upgradient	No	5.00E+00	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW360	Downgradient	Yes	1.11E-03	NO	-6.80E+00	N/A
MW363	Downgradient	Yes	1.40E-02	NO	-4.27E+00	N/A
MW366	Downgradient	Yes	1.04E-03	NO	-6.87E+00	N/A
MW369	Upgradient	Yes	3.11E-03	NO	-5.77E+00	N/A
MW372	Upgradient	Yes	7.01E-04	NO	-7.26E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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 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)
MW357	Downgradient	Yes	5.23E+02	N/A	6.26E+00	YES
MW360	Downgradient	Yes	4.30E+02	N/A	6.06E+00	YES
MW363	Downgradient	Yes	4.67E+02	N/A	6.15E+00	YES
MW366	Downgradient	Yes	5.25E+02	N/A	6.26E+00	YES
MW369	Upgradient	Yes	4.92E+02	N/A	6.20E+00	YES
MW372	Upgradient	Yes	5.20E+02	N/A	6.25E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	6.09E+00	NO	1.81E+00	N/A
MW360	Downgradient	Yes	6.12E+00	NO	1.81E+00	N/A
MW363	Downgradient	Yes	6.23E+00	NO	1.83E+00	N/A
MW366	Downgradient	Yes	6.09E+00	NO	1.81E+00	N/A
MW369	Upgradient	Yes	5.98E+00	NO	1.79E+00	N/A
MW372	Upgradient	Yes	6.12E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

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

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)
MW357	Downgradient	Yes	1.57E+00	NO	4.51E-01	N/A
MW360	Downgradient	Yes	6.97E-01	NO	-3.61E-01	N/A
MW363	Downgradient	Yes	2.04E+00	NO	7.13E-01	N/A
MW366	Downgradient	Yes	2.05E+00	NO	7.18E-01	N/A
MW369	Upgradient	Yes	5.97E-01	NO	-5.16E-01	N/A
MW372	Upgradient	Yes	2.09E+00	NO	7.37E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	3.88E+01	NO	3.66E+00	N/A
MW360	Downgradient	Yes	3.92E+01	NO	3.67E+00	N/A
MW363	Downgradient	Yes	3.61E+01	NO	3.59E+00	N/A
MW366	Downgradient	Yes	4.83E+01	NO	3.88E+00	N/A
MW369	Upgradient	Yes	4.65E+01	NO	3.84E+00	N/A
MW372	Upgradient	Yes	6.43E+01	NO	4.16E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	3.51E+01	NO	3.56E+00	N/A
MW360	Downgradient	Yes	1.03E+01	NO	2.33E+00	N/A
MW363	Downgradient	Yes	2.71E+01	NO	3.30E+00	N/A
MW366	Downgradient	Yes	5.19E+01	NO	3.95E+00	N/A
MW369	Upgradient	Yes	8.69E+00	NO	2.16E+00	N/A
MW372	Upgradient	Yes	1.44E+02	YES	4.97E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

**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

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 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)
MW357	Downgradient	Yes	2.36E+01	NO	3.16E+00	N/A
MW360	Downgradient	No	-2.25E+00	N/A	#Error	N/A
MW363	Downgradient	No	1.91E+00	N/A	6.47E-01	N/A
MW366	Downgradient	Yes	7.82E+01	YES	4.36E+00	N/A
MW369	Upgradient	Yes	7.26E+01	YES	4.28E+00	N/A
MW372	Upgradient	Yes	6.71E+01	YES	4.21E+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
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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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

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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

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	5.92E-01	N/A	-5.24E-01	NO
MW360	Downgradient	Yes	1.06E+00	N/A	5.83E-02	NO
MW363	Downgradient	Yes	1.09E+00	N/A	8.62E-02	NO
MW366	Downgradient	Yes	7.34E-01	N/A	-3.09E-01	NO
MW369	Upgradient	Yes	8.40E-01	N/A	-1.74E-01	NO
MW372	Upgradient	Yes	1.09E+00	N/A	8.62E-02	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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

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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	1.06E+01	NO	2.36E+00	N/A
MW360	Downgradient	Yes	3.52E+00	NO	1.26E+00	N/A
MW363	Downgradient	Yes	8.90E+00	NO	2.19E+00	N/A
MW366	Downgradient	No	1.00E+01	N/A	2.30E+00	N/A
MW369	Upgradient	Yes	1.06E+01	NO	2.36E+00	N/A
MW372	Upgradient	Yes	8.68E+00	NO	2.16E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW357	Downgradient	Yes	5.28E-03	N/A	-5.24E+00	NO
MW360	Downgradient	Yes	4.91E-03	N/A	-5.32E+00	NO
MW363	Downgradient	No	5.81E-03	N/A	-5.15E+00	N/A
MW366	Downgradient	No	4.70E-03	N/A	-5.36E+00	N/A
MW369	Upgradient	Yes	6.17E-03	N/A	-5.09E+00	NO
MW372	Upgradient	Yes	1.04E-02	N/A	-4.57E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

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	No	5.00E-02	N/A	-3.00E+00	N/A
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	Yes	2.08E-02	N/A	-3.87E+00	NO
MW370	Upgradient	No	2.48E-02	N/A	-3.70E+00	N/A
MW373	Upgradient	No	2.27E-02	N/A	-3.79E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	4.14E-01	NO	-8.82E-01	N/A
MW361	Downgradient	Yes	2.00E-01	NO	-1.61E+00	N/A
MW364	Downgradient	Yes	2.08E-01	NO	-1.57E+00	N/A
MW367	Downgradient	Yes	1.91E-02	NO	-3.96E+00	N/A
MW370	Upgradient	Yes	6.95E-02	NO	-2.67E+00	N/A
MW373	Upgradient	Yes	2.50E+00	NO	9.16E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	3.80E-01	NO	-9.68E-01	N/A
MW361	Downgradient	Yes	4.54E-01	NO	-7.90E-01	N/A
MW364	Downgradient	Yes	4.67E-01	NO	-7.61E-01	N/A
MW367	Downgradient	No	2.00E-01	N/A	-1.61E+00	N/A
MW370	Upgradient	Yes	5.12E-01	NO	-6.69E-01	N/A
MW373	Upgradient	Yes	4.36E-01	NO	-8.30E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

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

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)
MW358	Downgradient	Yes	2.85E+01	NO	3.35E+00	N/A
MW361	Downgradient	Yes	3.15E+01	NO	3.45E+00	N/A
MW364	Downgradient	Yes	3.21E+01	NO	3.47E+00	N/A
MW367	Downgradient	Yes	1.38E+01	NO	2.62E+00	N/A
MW370	Upgradient	Yes	2.70E+01	NO	3.30E+00	N/A
MW373	Upgradient	Yes	8.04E+01	YES	4.39E+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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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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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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	No	2.00E+01	N/A	3.00E+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	Yes	1.11E+01	NO	2.41E+00	N/A
MW373	Upgradient	Yes	1.57E+01	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	3.32E+01	NO	3.50E+00	N/A
MW361	Downgradient	Yes	3.72E+01	NO	3.62E+00	N/A
MW364	Downgradient	Yes	3.68E+01	NO	3.61E+00	N/A
MW367	Downgradient	Yes	7.97E+00	NO	2.08E+00	N/A
MW370	Upgradient	Yes	4.11E+01	NO	3.72E+00	N/A
MW373	Upgradient	Yes	2.98E+01	NO	3.39E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

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	2.45E-03	N/A	-6.01E+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	7.65E-03	N/A	-4.87E+00	NO
MW370	Upgradient	No	1.00E-03	N/A	-6.91E+00	N/A
MW373	Upgradient	Yes	6.42E-04	N/A	-7.35E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	4.70E+02	NO	6.15E+00	N/A
MW361	Downgradient	Yes	4.81E+02	NO	6.18E+00	N/A
MW364	Downgradient	Yes	4.68E+02	NO	6.15E+00	N/A
MW367	Downgradient	Yes	2.51E+02	NO	5.53E+00	N/A
MW370	Upgradient	Yes	4.38E+02	NO	6.08E+00	N/A
MW373	Upgradient	Yes	1.02E+03	YES	6.92E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW358	Downgradient	Yes	9.15E-04	NO	-7.00E+00	N/A
MW361	Downgradient	Yes	1.69E-03	NO	-6.38E+00	N/A
MW364	Downgradient	Yes	1.53E-03	NO	-6.48E+00	N/A
MW367	Downgradient	Yes	1.60E-03	NO	-6.44E+00	N/A
MW370	Upgradient	Yes	1.08E-03	NO	-6.83E+00	N/A
MW373	Upgradient	Yes	1.12E-03	NO	-6.79E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	4.47E+00	YES	1.50E+00	N/A
MW361	Downgradient	Yes	4.90E+00	YES	1.59E+00	N/A
MW364	Downgradient	Yes	4.44E+00	YES	1.49E+00	N/A
MW367	Downgradient	Yes	7.50E+00	YES	2.01E+00	N/A
MW370	Upgradient	Yes	5.24E+00	YES	1.66E+00	N/A
MW373	Upgradient	Yes	1.90E+00	NO	6.42E-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

MW358
MW361
MW364
MW367
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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	2.58E+02	NO	5.55E+00	N/A
MW361	Downgradient	Yes	2.84E+02	NO	5.65E+00	N/A
MW364	Downgradient	Yes	2.44E+02	NO	5.50E+00	N/A
MW367	Downgradient	Yes	1.42E+02	NO	4.96E+00	N/A
MW370	Upgradient	Yes	1.85E+02	NO	5.22E+00	N/A
MW373	Upgradient	Yes	6.18E+02	NO	6.43E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW358	Downgradient	Yes	8.18E-01	NO	-2.01E-01	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	5.76E+00	NO	1.75E+00	N/A
MW370	Upgradient	Yes	3.39E-02	NO	-3.38E+00	N/A
MW373	Upgradient	Yes	5.44E-02	NO	-2.91E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	1.32E+01	NO	2.58E+00	N/A
MW361	Downgradient	Yes	1.44E+01	NO	2.67E+00	N/A
MW364	Downgradient	Yes	1.40E+01	NO	2.64E+00	N/A
MW367	Downgradient	Yes	7.28E+00	NO	1.99E+00	N/A
MW370	Upgradient	Yes	1.10E+01	NO	2.40E+00	N/A
MW373	Upgradient	Yes	2.97E+01	NO	3.39E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	2.56E-01	NO	-1.36E+00	N/A
MW361	Downgradient	Yes	1.79E-03	NO	-6.33E+00	N/A
MW364	Downgradient	Yes	2.87E-03	NO	-5.85E+00	N/A
MW367	Downgradient	Yes	1.37E+00	NO	3.15E-01	N/A
MW370	Upgradient	No	5.00E-03	N/A	-5.30E+00	N/A
MW373	Upgradient	Yes	6.31E-02	NO	-2.76E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis Historical Background Comparison

Methylene chloride

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. 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. 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= 5.375 S= 2.156 CV(1)=0.401 K factor**= 2.523 TL(1)= 1.08E+01 LL(1)=N/A

Statistics-Transformed Background Data X= 1.603 S= 0.428 CV(2)=0.267 K factor**= 2.523 TL(2)= 2.68E+00 LL(2)=N/A

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW370

Date Collected	Result	LN(Result)
3/17/2002	2.00E+00	6.93E-01
4/23/2002	5.00E+00	1.61E+00
7/15/2002	1.00E+01	2.30E+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: MW373

Date Collected	Result	LN(Result)
3/18/2002	2.00E+00	6.93E-01
4/23/2002	7.00E+00	1.95E+00
7/16/2002	1.00E+01	2.30E+00
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	5.00E+00	1.61E+00
10/7/2003	5.00E+00	1.61E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result > TL(1)?	LN(Result)	LN(Result) > TL(2)
MW358	Downgradient	Yes	1.00E+00	NO	0.00E+00	N/A
MW361	Downgradient	Yes	1.38E+00	NO	3.22E-01	N/A
MW364	Downgradient	Yes	6.60E-01	NO	-4.16E-01	N/A
MW367	Downgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW370	Upgradient	No	5.00E+00	N/A	1.61E+00	N/A
MW373	Upgradient	No	5.00E+00	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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	9.60E-03	NO	-4.65E+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	3.00E-03	NO	-5.81E+00	N/A
MW370	Upgradient	No	2.00E-03	N/A	-6.21E+00	N/A
MW373	Upgradient	Yes	1.43E-03	NO	-6.55E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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 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)
MW358	Downgradient	Yes	2.16E+02	N/A	5.38E+00	YES
MW361	Downgradient	Yes	5.36E+02	N/A	6.28E+00	YES
MW364	Downgradient	Yes	4.81E+02	N/A	6.18E+00	YES
MW367	Downgradient	Yes	4.40E+02	N/A	6.09E+00	YES
MW370	Upgradient	Yes	5.05E+02	N/A	6.22E+00	YES
MW373	Upgradient	Yes	4.81E+02	N/A	6.18E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)?
MW358	Downgradient	Yes	6.22E+00	NO	1.83E+00	N/A
MW361	Downgradient	Yes	5.97E+00	NO	1.79E+00	N/A
MW364	Downgradient	Yes	6.02E+00	NO	1.80E+00	N/A
MW367	Downgradient	Yes	6.24E+00	NO	1.83E+00	N/A
MW370	Upgradient	Yes	6.00E+00	NO	1.79E+00	N/A
MW373	Upgradient	Yes	6.04E+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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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)
MW358	Downgradient	Yes	2.19E+00	NO	7.84E-01	N/A
MW361	Downgradient	Yes	2.28E+00	NO	8.24E-01	N/A
MW364	Downgradient	Yes	1.95E+00	NO	6.68E-01	N/A
MW367	Downgradient	Yes	2.92E+00	NO	1.07E+00	N/A
MW370	Upgradient	Yes	2.42E+00	NO	8.84E-01	N/A
MW373	Upgradient	Yes	2.79E+00	NO	1.03E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis Historical Background Comparison**Radium-226****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. 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. 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= 2.158 S= 5.739 CV(1)=2.660 K factor**= 2.523 TL(1)= 1.66E+01 LL(1)=N/A

Statistics-Transformed Background Data X= -0.670 S= 1.833 CV(2)=-2.736 K factor**= 2.523 TL(2)= 3.07E+00 LL(2)=N/A

Historical Background Data from Upgradient Wells with Transformed Result

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 was considered equal to the maximum background value.

Well Number: MW370

Date Collected	Result	LN(Result)
7/15/2002	1.01E+01	2.31E+00
10/8/2002	-8.25E-01	#Func!
1/8/2003	4.15E-01	-8.79E-01
10/6/2003	5.20E-01	-6.54E-01
1/7/2004	1.03E+00	2.96E-02
4/7/2004	4.34E-01	-8.35E-01
7/13/2004	5.32E-01	-6.31E-01
10/7/2004	2.99E-01	-1.21E+00

Well Number: MW373

Date Collected	Result	LN(Result)
7/16/2002	2.15E+01	3.07E+00
10/8/2002	3.27E-02	-3.42E+00
1/7/2003	-8.44E-01	#Func!
10/7/2003	0.00E+00	#Func!
1/6/2004	1.77E-01	-1.73E+00
4/7/2004	7.92E-01	-2.33E-01
7/14/2004	3.27E-01	-1.12E+00
10/7/2004	3.30E-02	-3.41E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result > TL(1)?	LN(Result)	LN(Result) > TL(2)
MW358	Downgradient	No	3.80E-01	N/A	-9.68E-01	N/A
MW361	Downgradient	No	3.66E-01	N/A	-1.01E+00	N/A
MW364	Downgradient	No	3.15E-01	N/A	-1.16E+00	N/A
MW367	Downgradient	Yes	8.78E-01	N/A	-1.30E-01	NO
MW370	Upgradient	No	5.43E-01	N/A	-6.11E-01	N/A
MW373	Upgradient	No	2.69E-01	N/A	-1.31E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	3.54E+01	NO	3.57E+00	N/A
MW361	Downgradient	Yes	4.13E+01	NO	3.72E+00	N/A
MW364	Downgradient	Yes	4.03E+01	NO	3.70E+00	N/A
MW367	Downgradient	Yes	1.69E+01	NO	2.83E+00	N/A
MW370	Upgradient	Yes	4.01E+01	NO	3.69E+00	N/A
MW373	Upgradient	Yes	6.92E+01	NO	4.24E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

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	5.12E+01	N/A	3.94E+00	NO
MW361	Downgradient	Yes	7.59E+01	N/A	4.33E+00	NO
MW364	Downgradient	Yes	6.72E+01	N/A	4.21E+00	NO
MW367	Downgradient	Yes	2.13E+01	N/A	3.06E+00	NO
MW370	Upgradient	Yes	1.94E+01	N/A	2.97E+00	NO
MW373	Upgradient	Yes	2.25E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

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

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 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)
MW358	Downgradient	Yes	2.66E+01	N/A	3.28E+00	NO
MW361	Downgradient	Yes	4.77E+01	N/A	3.86E+00	YES
MW364	Downgradient	Yes	4.68E+01	N/A	3.85E+00	YES
MW367	Downgradient	No	2.27E+00	N/A	8.20E-01	N/A
MW370	Upgradient	No	9.90E+00	N/A	2.29E+00	N/A
MW373	Upgradient	No	4.84E-01	N/A	-7.26E-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
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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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

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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is greater than 1, the natural logarithm of background and test well results were calculated utilizing TL(2) for comparison.

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	2.38E+00	N/A	8.67E-01	NO
MW361	Downgradient	Yes	6.29E-01	N/A	-4.64E-01	NO
MW364	Downgradient	Yes	6.12E-01	N/A	-4.91E-01	NO
MW367	Downgradient	Yes	4.49E-01	N/A	-8.01E-01	NO
MW370	Upgradient	Yes	8.27E-01	N/A	-1.90E-01	NO
MW373	Upgradient	Yes	1.43E+00	N/A	3.58E-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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	No	1.00E+01	N/A	2.30E+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	No	1.00E+01	N/A	2.30E+00	N/A
MW370	Upgradient	Yes	7.96E+00	NO	2.07E+00	N/A
MW373	Upgradient	Yes	9.53E+00	NO	2.25E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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

Historical Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

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	5.10E-03	NO	-5.28E+00	N/A
MW361	Downgradient	Yes	5.04E-03	NO	-5.29E+00	N/A
MW364	Downgradient	No	1.97E-02	N/A	-3.93E+00	N/A
MW367	Downgradient	No	1.56E-02	N/A	-4.16E+00	N/A
MW370	Upgradient	Yes	4.80E-03	NO	-5.34E+00	N/A
MW373	Upgradient	Yes	4.69E-03	NO	-5.36E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 2.869 S= 1.576 CV(1)=0.549 K factor**= 2.523 TL(1)= 6.84E+00 LL(1)=N/A

Statistics-Transformed Background Data X= 0.919 S= 0.534 CV(2)=0.581 K factor**= 2.523 TL(2)= 2.27E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW371

Date Collected	Result	LN(Result)
10/11/2023	1.33E+00	2.85E-01
1/24/2024	1.97E+00	6.78E-01
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

Well Number: MW374

Date Collected	Result	LN(Result)
10/11/2023	1.84E+00	6.10E-01
1/25/2024	2.20E+00	7.88E-01
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	4.00E+00	NO	1.39E+00	N/A
MW365	Downgradient	Yes	4.58E+00	NO	1.52E+00	N/A
MW371	Upgradient	Yes	3.33E+00	NO	1.20E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 411.875	S= 43.927	CV(1)=0.107	K factor**= 2.523	TL(1)= 5.23E+02	LL(1)=N/A

Statistics-Transformed Background Data	X= 6.016	S= 0.104	CV(2)=0.017	K factor**= 2.523	TL(2)= 6.28E+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)
10/11/2023	3.76E+02	5.93E+00
1/24/2024	4.52E+02	6.11E+00
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

Well Number: MW374

Date Collected	Result	LN(Result)
10/11/2023	3.98E+02	5.99E+00
1/25/2024	4.55E+02	6.12E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	4.81E+02	NO	6.18E+00	N/A
MW365	Downgradient	Yes	4.77E+02	NO	6.17E+00	N/A
MW368	Downgradient	Yes	2.80E+02	NO	5.63E+00	N/A
MW371	Upgradient	Yes	5.02E+02	NO	6.22E+00	N/A
MW374	Upgradient	Yes	4.96E+02	NO	6.21E+00	N/A
MW375	Sidegradient	Yes	5.01E+02	NO	6.22E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 16.434 S= 7.959 CV(1)=0.484 K factor**= 2.523 TL(1)= 3.65E+01 LL(1)=N/A

Statistics-Transformed Background Data X= 2.719 S= 0.393 CV(2)=0.144 K factor**= 2.523 TL(2)= 3.71E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW371

Date Collected	Result	LN(Result)
10/11/2023	1.58E+01	2.76E+00
1/24/2024	9.84E+00	2.29E+00
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

Well Number: MW374

Date Collected	Result	LN(Result)
10/11/2023	1.42E+01	2.65E+00
1/25/2024	1.54E+01	2.73E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW362	Downgradient	Yes	3.30E+01	NO	3.50E+00	N/A
MW365	Downgradient	Yes	5.19E+01	YES	3.95E+00	N/A
MW368	Downgradient	Yes	9.48E+01	YES	4.55E+00	N/A
MW374	Upgradient	Yes	1.98E+01	NO	2.99E+00	N/A
MW375	Sidegradient	Yes	2.09E+01	NO	3.04E+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
MW368

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 41.725 S= 25.791 CV(1)=0.618 K factor**= 2.523 TL(1)= 1.07E+02 LL(1)=N/A

Statistics-Transformed Background Data X= 3.505 S= 0.725 CV(2)=0.207 K factor**= 2.523 TL(2)= 5.33E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369

Date Collected	Result	LN(Result)
10/11/2023	1.60E+01	2.77E+00
1/24/2024	1.64E+01	2.80E+00
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

Well Number: MW372

Date Collected	Result	LN(Result)
10/11/2023	6.46E+01	4.17E+00
1/25/2024	7.14E+01	4.27E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	6.30E+01	NO	4.14E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 553.375	S= 203.602	CV(1)=0.368	K factor**= 2.523	TL(1)= 1.07E+03	LL(1)=N/A
Statistics-Transformed Background Data	X= 6.248	S= 0.386	CV(2)=0.062	K factor**= 2.523	TL(2)= 7.22E+00	LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW369		
Date Collected	Result	LN(Result)
10/11/2023	3.45E+02	5.84E+00
1/24/2024	3.41E+02	5.83E+00
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

Well Number: MW372		
Date Collected	Result	LN(Result)
10/11/2023	7.47E+02	6.62E+00
1/25/2024	7.27E+02	6.59E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	8.03E+02	NO	6.69E+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 Fourth Quarter 2025 Statistical Analysis**Current 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. 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. 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**= 2.976 **S**= 1.095 **CV(1)**=0.368 **K factor****= 2.523 **TL(1)**= 5.74E+00 **LL(1)**=N/A

Statistics-Transformed Background Data **X**= 1.031 **S**= 0.353 **CV(2)**=0.343 **K factor****= 2.523 **TL(2)**= 1.92E+00 **LL(2)**=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369

Date Collected	Result	LN(Result)
10/11/2023	3.49E+00	1.25E+00
1/24/2024	2.42E+00	8.84E-01
4/10/2024	2.39E+00	8.71E-01
7/30/2024	3.00E+00	1.10E+00
10/10/2024	3.44E+00	1.24E+00
1/28/2025	4.72E+00	1.55E+00
4/10/2025	2.40E+00	8.75E-01
7/21/2025	5.60E+00	1.72E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW366	Downgradient	Yes	6.50E+00	YES	1.87E+00	N/A

Well Number: MW372

Date Collected	Result	LN(Result)
10/11/2023	3.24E+00	1.18E+00
1/25/2024	1.70E+00	5.31E-01
4/11/2024	2.12E+00	7.51E-01
7/30/2024	1.57E+00	4.51E-01
10/10/2024	2.20E+00	7.88E-01
1/28/2025	3.71E+00	1.31E+00
4/10/2025	2.10E+00	7.42E-01
7/21/2025	3.51E+00	1.26E+00

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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 330.875 S= 136.627 CV(1)=0.413 K factor**= 2.523 TL(1)= 6.76E+02 LL(1)=N/A

Statistics-Transformed Background Data X= 5.714 S= 0.439 CV(2)=0.077 K factor**= 2.523 TL(2)= 6.82E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369

Date Collected	Result	LN(Result)
10/11/2023	1.92E+02	5.26E+00
1/24/2024	1.89E+02	5.24E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	4.49E+02	NO	6.11E+00	N/A

Well Number: MW372

Date Collected	Result	LN(Result)
10/11/2023	4.47E+02	6.10E+00
1/25/2024	4.38E+02	6.08E+00
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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 15.188 S= 8.443 CV(1)=0.556 K factor**= 2.523 TL(1)= 3.65E+01 LL(1)=N/A

Statistics-Transformed Background Data X= 2.546 S= 0.633 CV(2)=0.249 K factor**= 2.523 TL(2)= 4.14E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369

Date Collected	Result	LN(Result)
10/11/2023	6.42E+00	1.86E+00
1/24/2024	7.13E+00	1.96E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	2.25E+01	NO	3.11E+00	N/A

Well Number: MW372

Date Collected	Result	LN(Result)
10/11/2023	2.16E+01	3.07E+00
1/25/2024	2.51E+01	3.22E+00
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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 420.188	S= 47.080	CV(1)=0.112	K factor**= 2.523	TL(1)= 5.39E+02	LL(1)=N/A
Statistics-Transformed Background Data	X= 6.034	S= 0.119	CV(2)=0.020	K factor**= 2.523	TL(2)= 6.33E+00	LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369		
Date Collected	Result	LN(Result)
10/11/2023	3.85E+02	5.95E+00
1/24/2024	4.23E+02	6.05E+00
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
Well Number: MW372		
Date Collected	Result	LN(Result)
10/11/2023	3.40E+02	5.83E+00
1/25/2024	4.83E+02	6.18E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW357	Downgradient	Yes	5.23E+02	NO	6.26E+00	N/A
MW360	Downgradient	Yes	4.30E+02	NO	6.06E+00	N/A
MW363	Downgradient	Yes	4.67E+02	NO	6.15E+00	N/A
MW366	Downgradient	Yes	5.25E+02	NO	6.26E+00	N/A
MW369	Upgradient	Yes	4.92E+02	NO	6.20E+00	N/A
MW372	Upgradient	Yes	5.20E+02	NO	6.25E+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 Fourth Quarter 2025 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. 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. 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= 80.256 S= 73.208 CV(1)=0.912 K factor**= 2.523 TL(1)= 2.65E+02 LL(1)=N/A

Statistics-Transformed Background Data X= 3.621 S= 1.452 CV(2)=0.401 K factor**= 2.523 TL(2)= 7.29E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW369

Date Collected	Result	LN(Result)
10/11/2023	8.72E+00	2.17E+00
1/24/2024	8.49E+00	2.14E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW372	Upgradient	Yes	1.44E+02	NO	4.97E+00	N/A

Well Number: MW372

Date Collected	Result	LN(Result)
10/11/2023	1.43E+02	4.96E+00
1/25/2024	1.48E+02	5.00E+00
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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis Technetium-99	Current Background Comparison 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. 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. 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= 48.091	S= 26.317	CV(1)=0.547	K factor**= 2.523	TL(1)= 1.14E+02	LL(1)=N/A

Statistics-Transformed Background Data	X= 3.648	S= 0.803	CV(2)=0.220	K factor**= 2.523	TL(2)= 5.67E+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)
10/11/2023	7.67E+01	4.34E+00
1/24/2024	6.27E+01	4.14E+00
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

Well Number: MW372

Date Collected	Result	LN(Result)
10/11/2023	2.25E+01	3.11E+00
1/25/2024	3.89E+01	3.66E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW366	Downgradient	Yes	7.82E+01	NO	4.36E+00	N/A
MW369	Upgradient	Yes	7.26E+01	NO	4.28E+00	N/A
MW372	Upgradient	Yes	6.71E+01	NO	4.21E+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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 56.969 S= 28.978 CV(1)=0.509 K factor**= 2.523 TL(1)= 1.30E+02 LL(1)=N/A

Statistics-Transformed Background Data X= 3.904 S= 0.555 CV(2)=0.142 K factor**= 2.523 TL(2)= 5.30E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW370

Date Collected	Result	LN(Result)
10/11/2023	2.90E+01	3.37E+00
1/24/2024	3.00E+01	3.40E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Upgradient	Yes	8.04E+01	NO	4.39E+00	N/A

Well Number: MW373

Date Collected	Result	LN(Result)
10/11/2023	7.90E+01	4.37E+00
1/25/2024	8.40E+01	4.43E+00
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

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, $S = [\text{Sum}([(background\ result - X)^2]/[\text{count of background results} - 1])]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 Statistical Analysis	Current 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. 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. 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= 694.375	S= 263.756	CV(1)=0.380	K factor**= 2.523	TL(1)= 1.36E+03	LL(1)=N/A
Statistics-Transformed Background Data	X= 6.470	S= 0.399	CV(2)=0.062	K factor**= 2.523	TL(2)= 7.48E+00	LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370		
Date Collected	Result	LN(Result)
10/11/2023	4.50E+02	6.11E+00
1/24/2024	4.37E+02	6.08E+00
4/10/2024	4.09E+02	6.01E+00
7/30/2024	4.39E+02	6.08E+00
10/10/2024	4.99E+02	6.21E+00
1/28/2025	4.16E+02	6.03E+00
4/10/2025	4.49E+02	6.11E+00
7/21/2025	4.29E+02	6.06E+00

Well Number: MW373		
Date Collected	Result	LN(Result)
10/11/2023	8.98E+02	6.80E+00
1/25/2024	9.09E+02	6.81E+00
4/10/2024	9.30E+02	6.84E+00
7/30/2024	9.43E+02	6.85E+00
10/10/2024	9.46E+02	6.85E+00
1/28/2025	9.45E+02	6.85E+00
4/10/2025	1.00E+03	6.91E+00
7/21/2025	1.01E+03	6.92E+00

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW373	Upgradient	Yes	1.02E+03	NO	6.92E+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 Fourth Quarter 2025 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. 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. 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= 3.206 S= 1.586 CV(1)=0.495 K factor**= 2.523 TL(1)= 7.21E+00 LL(1)=N/A

Statistics-Transformed Background Data X= 1.031 S= 0.559 CV(2)=0.542 K factor**= 2.523 TL(2)= 2.44E+00 LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Because CV(1) is less than or equal to 1, assume normal distribution and continue with statistical analysis utilizing TL(1).

Well Number: MW370

Date Collected	Result	LN(Result)
10/11/2023	4.64E+00	1.53E+00
1/24/2024	4.65E+00	1.54E+00
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

Well Number: MW373

Date Collected	Result	LN(Result)
10/11/2023	2.00E+00	6.93E-01
1/25/2024	1.30E+00	2.62E-01
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	4.47E+00	NO	1.50E+00	N/A
MW361	Downgradient	Yes	4.90E+00	NO	1.59E+00	N/A
MW364	Downgradient	Yes	4.44E+00	NO	1.49E+00	N/A
MW367	Downgradient	Yes	7.50E+00	YES	2.01E+00	N/A
MW370	Upgradient	Yes	5.24E+00	NO	1.66E+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

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, $S = \left[\frac{\text{Sum}([(background\ result - X)^2])}{[\text{count of background results} - 1]} \right]^{0.5}$

TL Upper Tolerance Limit, $TL = X + (K * S)$, LL Lower Tolerance Limit, $LL = X - (K * S)$

X Mean, $X = (\text{sum of background results})/(\text{count of background results})$

** 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 Fourth Quarter 2025 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. 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. 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= 438.938	S= 71.542	CV(1)=0.163	K factor**= 2.523	TL(1)= 6.19E+02	LL(1)=N/A
Statistics-Transformed Background Data	X= 6.072	S= 0.161	CV(2)=0.027	K factor**= 2.523	TL(2)= 6.48E+00	LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370		
Date Collected	Result	LN(Result)
10/11/2023	3.27E+02	5.79E+00
1/24/2024	5.30E+02	6.27E+00
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

Well Number: MW373		
Date Collected	Result	LN(Result)
10/11/2023	3.57E+02	5.88E+00
1/25/2024	4.93E+02	6.20E+00
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

Current Quarter Data

Well No.	Gradient	Detected?	Result	Result >TL(1)?	LN(Result)	LN(Result) >TL(2)
MW358	Downgradient	Yes	2.16E+02	NO	5.38E+00	N/A
MW361	Downgradient	Yes	5.36E+02	NO	6.28E+00	N/A
MW364	Downgradient	Yes	4.81E+02	NO	6.18E+00	N/A
MW367	Downgradient	Yes	4.40E+02	NO	6.09E+00	N/A
MW370	Upgradient	Yes	5.05E+02	NO	6.22E+00	N/A
MW373	Upgradient	Yes	4.81E+02	NO	6.18E+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 Fourth Quarter 2025 Statistical Analysis
Technetium-99

Current Background Comparison
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. 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. 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= 7.846	S= 9.187	CV(1)=1.171	K factor**= 2.523	TL(1)= 3.10E+01	LL(1)=N/A
Statistics-Transformed Background Data	X= 2.220	S= 0.687	CV(2)=0.310	K factor**= 2.523	TL(2)= 3.13E+00	LL(2)=N/A

Current Background Data from Upgradient Wells with Transformed Result

Well Number: MW370		
Date Collected	Result	LN(Result)
10/11/2023	1.86E+01	2.92E+00
1/24/2024	1.03E+01	2.33E+00
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
Well Number: MW373		
Date Collected	Result	LN(Result)
10/11/2023	1.47E+01	2.69E+00
1/25/2024	6.70E+00	1.90E+00
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

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 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)
MW361	Downgradient	Yes	4.77E+01	N/A	3.86E+00	YES
MW364	Downgradient	Yes	4.68E+01	N/A	3.85E+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.

ATTACHMENT D3

STATISTICIAN QUALIFICATION STATEMENT

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January 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 fourth quarter 2025 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 fourth quarter 2025 and determine groundwater flow rate and direction.

Water levels during this reporting period were measured on October 14, 2025. As shown on Figure E.1, all 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 9.29×10^{-4} ft/ft for the URGA and 9.85×10^{-4} ft/ft for the LRGA. Water level measurements in wells at the C-746-U Landfill and in wells of the surrounding vicinity¹ (MW98, MW100, MW125, MW139, MW165A, MW173, MW193, MW197, and MW200), along with the C-746-S&T Landfill wells, were used to contour the general RGA potentiometric surface (Figure E.4). The hydraulic gradient for the RGA, as a whole, in the vicinity of the C-746-U Landfill was 5.87×10^{-4} ft/ft. 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 NWC1 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 the 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 October 2025, the groundwater flow direction in the immediate area of the landfill was to the north.

¹ Additional water level measurements, in wells at the C-746-S&T Landfill and in wells of the surrounding vicinity (MW98, MW100, MW125, MW139, MW165A, MW173, MW193, MW197, and MW200), were used to contour the RGA potentiometric surface (Table E.4).

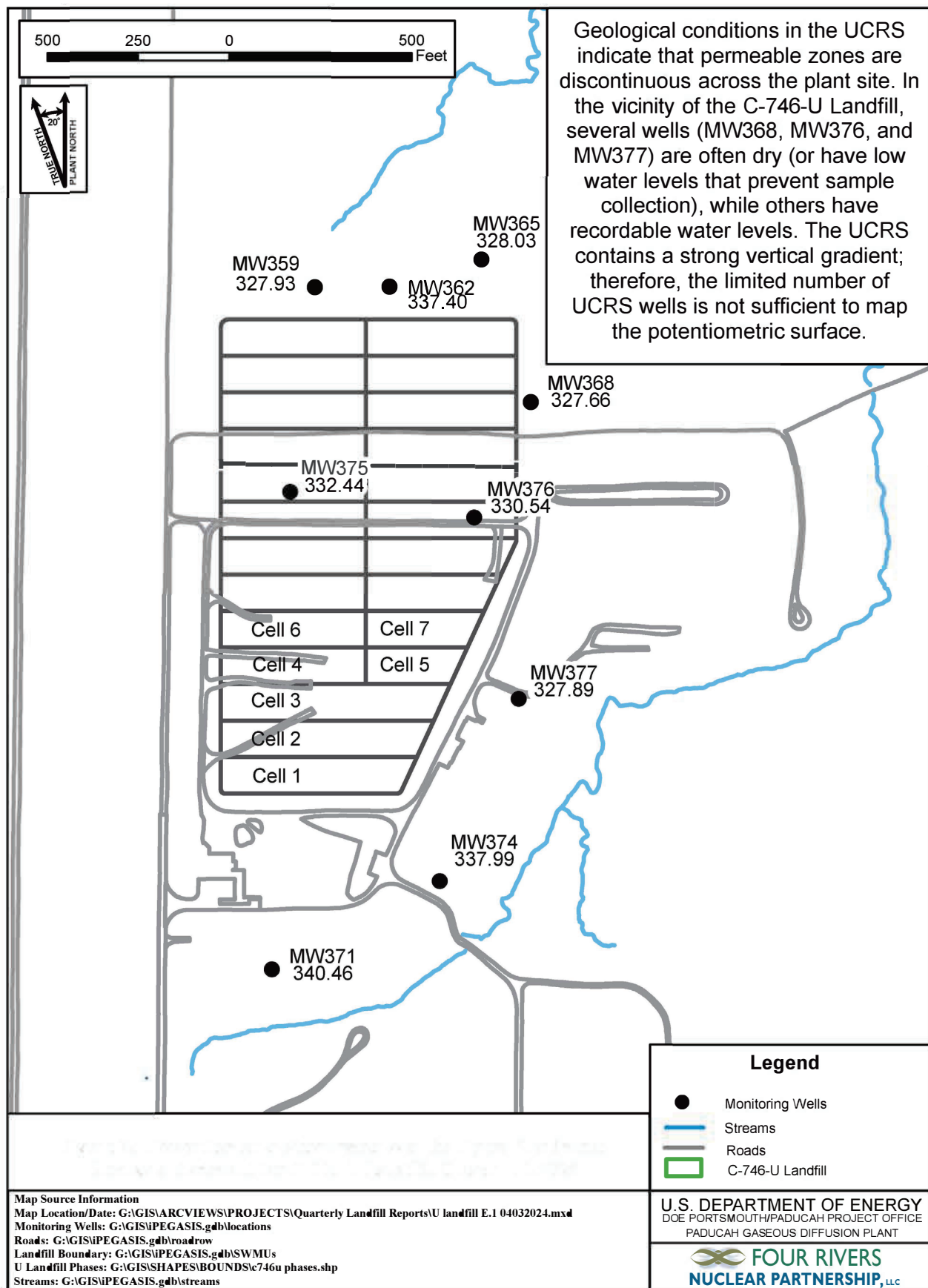


Figure E.1. Potentiometric Measurements of the Upper Continental Recharge System at the C-746-U Landfill, October 14, 2025

Table E.1. C-746-U Landfill Fourth Quarter 2025 (October) Water Levels

C-746-U Landfill (October 2025) Water Levels										
Date	Time	Well	Aquifer	Datum Elev (ft amsl)	BP (in Hg)	Delta BP (ft H2O)	Raw Data		*Corrected Data	
							DTW (ft)	Elev (ft amsl)	DTW (ft)	Elev (ft amsl)
10/14/2025	9:45	MW357	URGA	368.77	30.24	0.00	45.48	323.29	45.48	323.29
10/14/2025	9:46	MW358	LRGA	368.92	30.24	0.00	45.63	323.29	45.63	323.29
10/14/2025	9:47	MW359	UCRS	368.91	30.24	0.00	40.98	327.93	40.98	327.93
10/14/2025	9:49	MW360	URGA	362.07	30.24	0.00	38.76	323.31	38.76	323.31
10/14/2025	9:50	MW361	LRGA	361.32	30.24	0.00	38.02	323.30	38.02	323.30
10/14/2025	9:51	MW362	UCRS	361.85	30.24	0.00	24.45	337.40	24.45	337.40
10/14/2025	9:56	MW363	URGA	368.56	30.24	0.00	45.31	323.25	45.31	323.25
10/14/2025	9:54	MW364	LRGA	368.17	30.24	0.00	45.02	323.15	45.02	323.15
10/14/2025	9:55	MW365	UCRS	368.14	30.24	0.00	40.11	328.03	40.11	328.03
10/14/2025	10:01	MW366	URGA	368.95	30.24	0.00	45.50	323.45	45.50	323.45
10/14/2025	9:59	MW367	LRGA	369.37	30.24	0.00	45.93	323.44	45.93	323.44
10/14/2025	10:00	MW368	UCRS	368.98	30.24	0.00	41.32	327.66	41.32	327.66
10/14/2025	10:18	MW369	URGA	364.23	30.24	0.00	39.31	324.92	39.31	324.92
10/14/2025	10:19	MW370	LRGA	365.12	30.24	0.00	40.20	324.92	40.20	324.92
10/14/2025	10:20	MW371	UCRS	364.64	30.24	0.00	24.18	340.46	24.18	340.46
10/14/2025	10:16	MW372	URGA	359.42	30.24	0.00	34.47	324.95	34.47	324.95
10/14/2025	10:14	MW373	LRGA	359.73	30.24	0.00	34.77	324.96	34.77	324.96
10/14/2025	10:15	MW374	UCRS	359.44	30.24	0.00	21.45	337.99	21.45	337.99
10/14/2025	10:08	MW375	UCRS	370.36	30.24	0.00	37.92	332.44	37.92	332.44
10/14/2025	10:10	MW376	UCRS	370.39	30.24	0.00	39.85	330.54	39.85	330.54
10/14/2025	10:12	MW377	UCRS	365.74	30.24	0.00	37.85	327.89	37.85	327.89
Reference Barometric Pressure			30.24							
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										

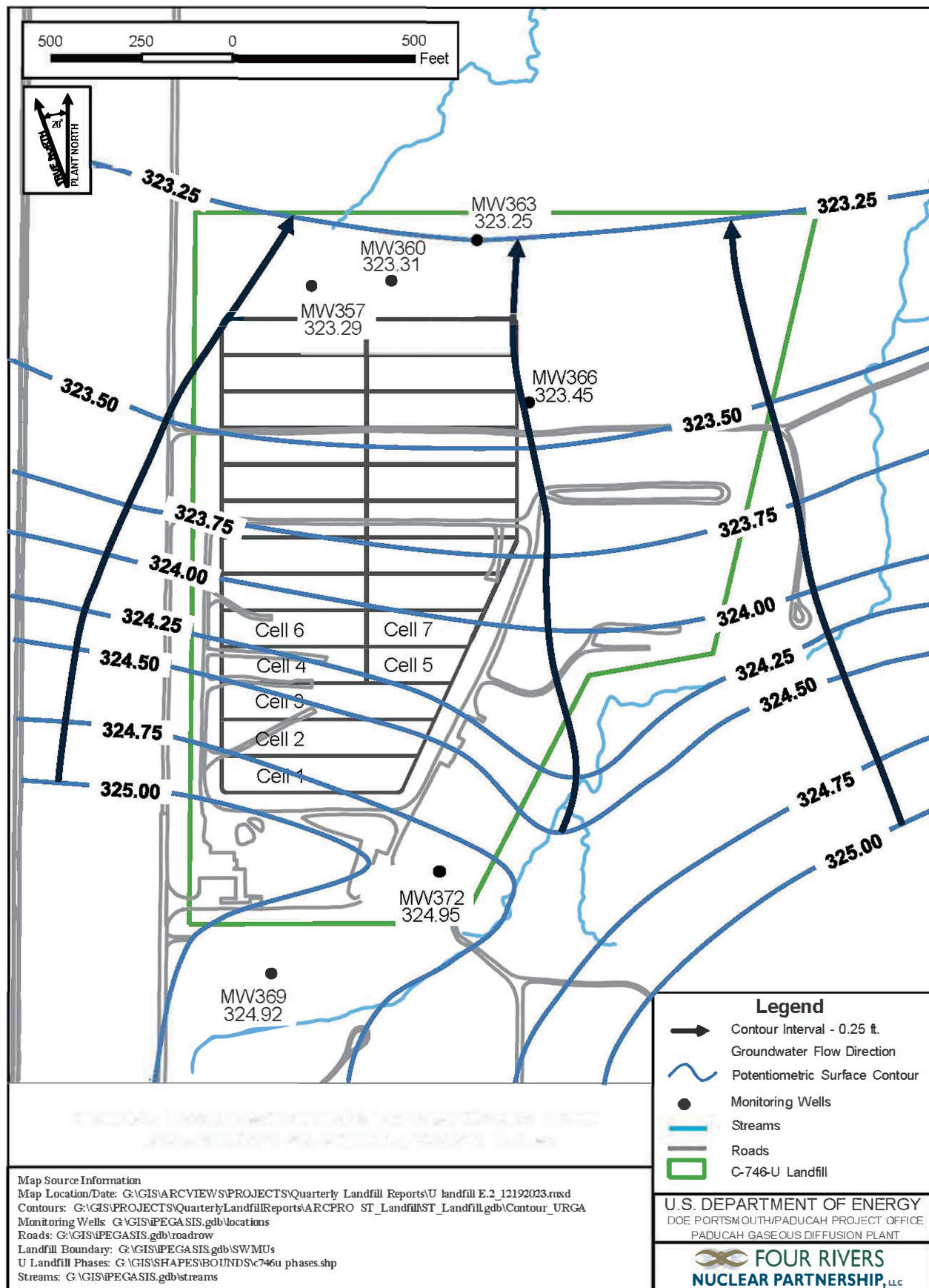


Figure E.2. Potentiometric Surface of the Upper Regional Gravel Aquifer at the C-746-U Landfill, October 14, 2025

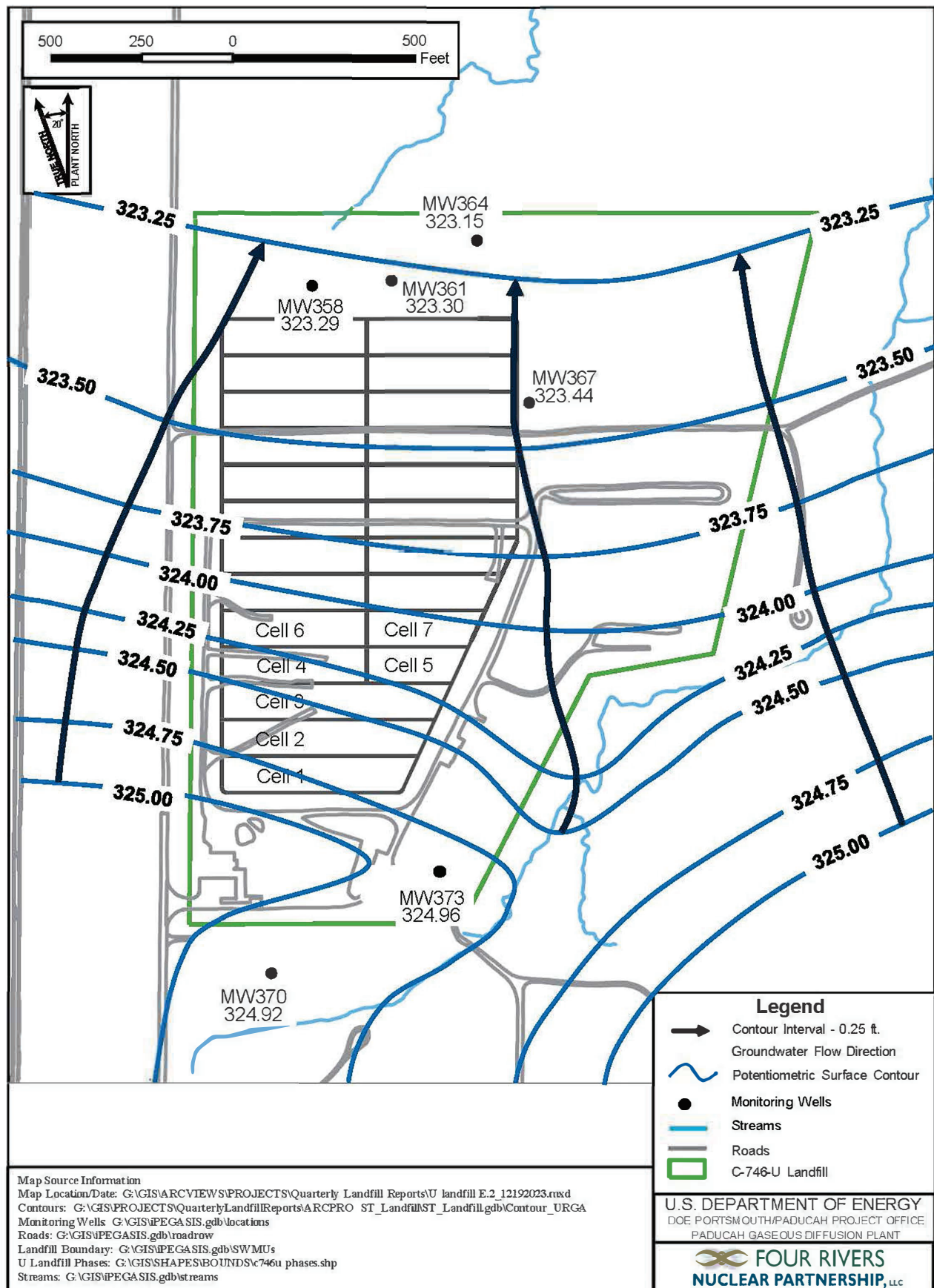


Figure E.3. Potentiometric Surface of the Lower Regional Gravel Aquifer at the C-746-U Landfill, October 14, 2025

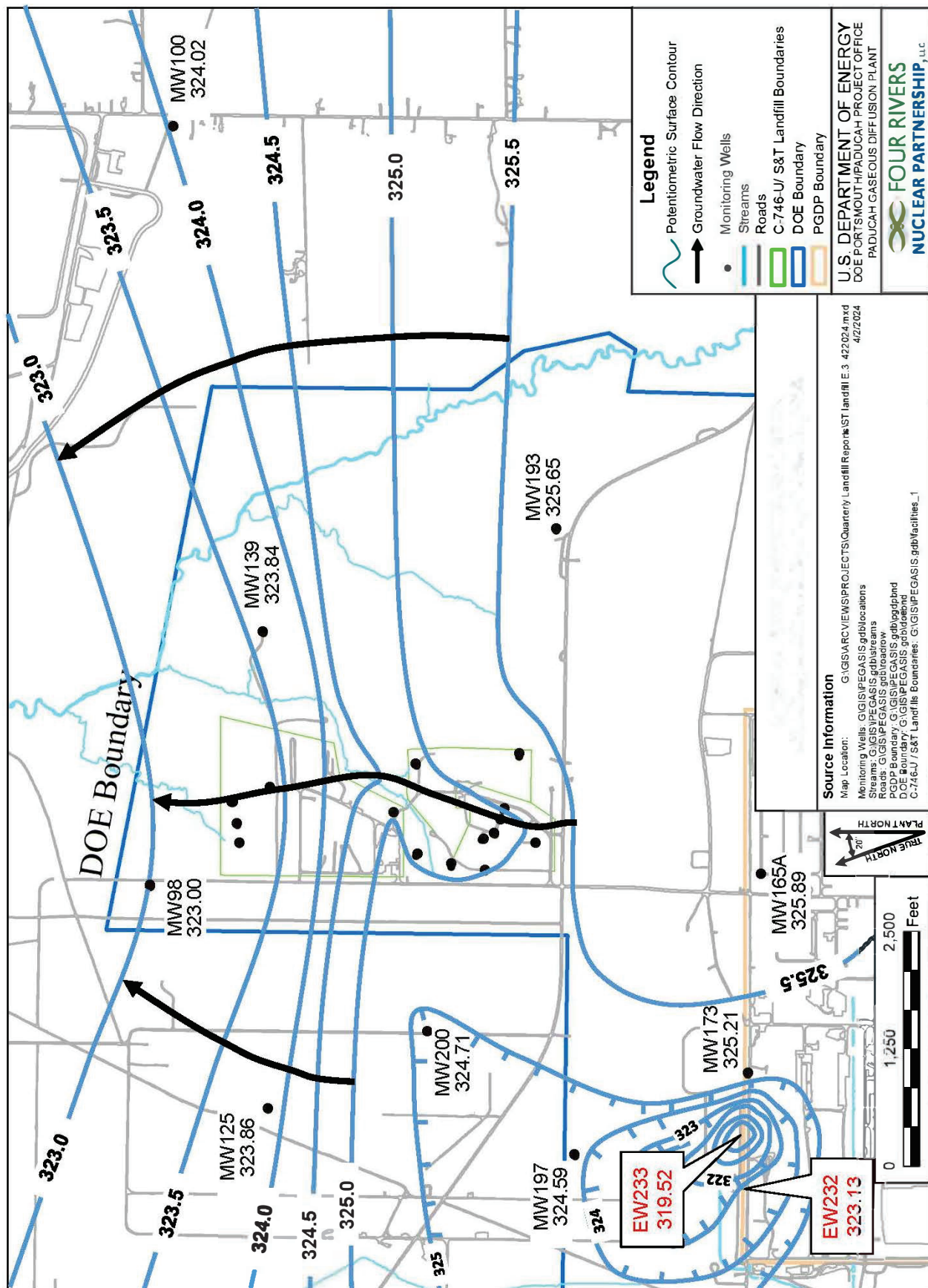


Figure E.4. Vicinity Potentiometric Surface of the Regional Gravel Aquifer, October 14, 2025

Table E.2. C-746-U Landfill Hydraulic Gradients

	ft/ft
Beneath Landfill—Upper RGA	9.29×10^{-4}
Beneath Landfill—Lower RGA	9.85×10^{-4}
Vicinity	5.87×10^{-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
<u>Upper RGA</u>					
7.25×10^2	2.56×10^{-1}	6.73×10^{-1}	2.38×10^{-4}	2.69	9.51×10^{-4}
4.25×10^2	1.50×10^{-1}	3.95×10^{-1}	1.39×10^{-4}	1.58	5.57×10^{-4}
<u>Lower RGA</u>					
7.25×10^2	2.56×10^{-1}	7.14×10^{-1}	2.52×10^{-4}	2.86	1.01×10^{-3}
4.25×10^2	1.50×10^{-1}	4.19×10^{-1}	1.48×10^{-4}	1.68	5.91×10^{-4}
<u>Vicinity</u>					
7.25×10^2	2.56×10^{-1}	4.26×10^{-1}	1.50×10^{-4}	1.70	6.01×10^{-4}
4.25×10^2	1.50×10^{-1}	2.49×10^{-1}	8.80×10^{-5}	9.98×10^{-1}	3.52×10^{-4}

Table E.4. Vicinity Fourth Quarter 2025 (October) Water Levels

Vicinity (October 2025) Water Levels										
Date	Time	Well	Aquifer	Datum Elev (ft amsl)	BP (in Hg)	Delta BP (ft H2O)	Raw Data	*Corrected Data		
							DTW (ft)	Elev (ft amsl)	DTW (ft)	Elev (ft amsl)
10/14/2025	9:42	MW98	RGA	370.55	30.24	0.00	47.55	323.00	47.55	323.00
10/14/2025	10:30	MW100	RGA	373.39	30.24	0.00	49.37	324.02	49.37	324.02
10/14/2025	9:27	MW125	RGA	375.57	30.24	0.00	51.71	323.86	51.71	323.86
10/14/2025	10:03	MW139	RGA	363.75	30.24	0.00	39.91	323.84	39.91	323.84
10/14/2025	12:08	MW165A	RGA	380.94	30.24	0.00	55.05	325.89	55.05	325.89
10/14/2025	12:11	MW173	RGA	373.63	30.24	0.00	48.42	325.21	48.42	325.21
10/14/2025	10:25	MW193	RGA	368.30	30.24	0.00	42.65	325.65	42.65	325.65
10/14/2025	9:32	MW197	RGA	368.39	30.24	0.00	43.80	324.59	43.80	324.59
10/14/2025	9:37	MW200	RGA	378.70	30.24	0.00	53.99	324.71	53.99	324.71
Reference Barometric Pressure			30.24							
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. There were no MCL exceedances in the current reporting period. 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 fourth quarter 2025 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.

	<u>Parameter</u>	<u>Monitoring Well</u>
Upper Continental Recharge System	None	
Upper Regional Gravel Aquifer	Technetium-99	MW366, MW369, MW372
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.

11/18/2025

**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 MCL AND UTL 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																■						
Quarter 2, 2004																■						■
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Quarter 4, 2007											■					■						■
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Quarter 1, 2019																					■	
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Quarter 3, 2019															■	■					■	

**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, 2019											■					■					■	
Quarter 1, 2020									■							■					■	
Quarter 2, 2020																					■	
Quarter 3, 2020																■					■	
Quarter 4, 2020																					■	
BROMIDE																						
Quarter 2, 2004														*								
CALCIUM																						
Quarter 3, 2003											*											
Quarter 2, 2005																						*
Quarter 3, 2006																*						
Quarter 2, 2008																*						
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Quarter 1, 2024																*					*	
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Quarter 3, 2024																*					*	
Quarter 4, 2024																*					*	
Quarter 1, 2025																*					*	
Quarter 2, 2025																*					*	
Quarter 3, 2025									*							*					*	
Quarter 4, 2025																*					*	
CARBON DISULFIDE																						

**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, 2003											*											
Quarter 2, 2005							*															
Quarter 3, 2005						*																
Quarter 4, 2005						*																
Quarter 1, 2006						*																
Quarter 2, 2006						*																
Quarter 3, 2010		*									*											
Quarter 4, 2010															*							
Quarter 1, 2011																*						
CHEMICAL OXYGEN DEMAND																						
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						*													*	*		
Quarter 1, 2006																				*		
Quarter 4, 2016																			*			
Quarter 1, 2017											*											
Quarter 2, 2019												*		*		*						
Quarter 3, 2019																*						*
Quarter 4, 2019																*						
Quarter 4, 2024													*									
CHLORIDE																						
Quarter 1, 2006																					*	
Quarter 2, 2014																*						
COBALT																						
Quarter 3, 2003	*						*				*	*		*	*	*	*	*	*		*	
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										*	*											
Quarter 4, 2003										*												
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Quarter 1, 2022															*							
Quarter 2, 2022															*							
Quarter 3, 2022															*							
Quarter 4, 2022															*							
Quarter 1, 2023															*							

**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 2, 2023																*						
Quarter 3, 2023																*						
Quarter 4, 2023																*						
Quarter 1, 2024																*						
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Quarter 4, 2024																*						
Quarter 1, 2025																*						
Quarter 2, 2025																*						*
Quarter 3, 2025																*						*
Quarter 4, 2025																*						*
CYANIDE																						
Quarter 2, 2025																				*		
DISSOLVED OXYGEN																						
Quarter 1, 2003					*	*					*											
Quarter 3, 2003					*						*											
Quarter 4, 2003					*																	
Quarter 1, 2004					*																	
Quarter 2, 2004								*									*					
Quarter 1, 2005					*																	
Quarter 2, 2005								*														
Quarter 1, 2006					*																	
Quarter 2, 2006					*			*														
Quarter 3, 2006					*			*														
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						*	*	*	*		*					*	*	*	*	*		
DISSOLVED SOLIDS																						
Quarter 4, 2002										*												
Quarter 1, 2003										*												
Quarter 2, 2003										*												

**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, 2003							*				*	*										
Quarter 4, 2003											*											
Quarter 3, 2005						*																
Quarter 4, 2006																*						
Quarter 1, 2007																*						
Quarter 2, 2007																*						
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																*						

**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															*							
Quarter 4, 2015															*							
Quarter 1, 2016															*							
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 1, 2024															*							
Quarter 2, 2024															*							
Quarter 3, 2024															*							
Quarter 4, 2024															*							
Quarter 1, 2025															*							
Quarter 2, 2025															*						*	
Quarter 3, 2025															*						*	
Quarter 4, 2025															*							
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															*							

**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 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															*							

**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					*	*		*		*	*	*	*			*	*	*	*	*	*	

**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, 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	*	*				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
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							*															

**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, 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																	*					

**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
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
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																	*	*	*			
POTASSIUM																						
Quarter 1, 2014																	*					
RADIUM-228																						
Quarter 2, 2005																						
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		*			*	*	*									*						

**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, 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	*	*				*	*		*						*							
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								*		*					*							

**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, 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																				*		

**Chart of MCL and Historical UTL Exceedances
for the C-746-U Contained Landfill (Continued)**

[illegible]

**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 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																						

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:	October 1, 2025	Time:	0900	Monitor:	Michael Hideg
Weather Conditions: Sunny, Approximately 77°F, humidity: 64%					
Monitoring Equipment: Multi RAE – Serial # 11881					
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: 2025.10.02 15:35:37 -05'00'					
Signature					Date

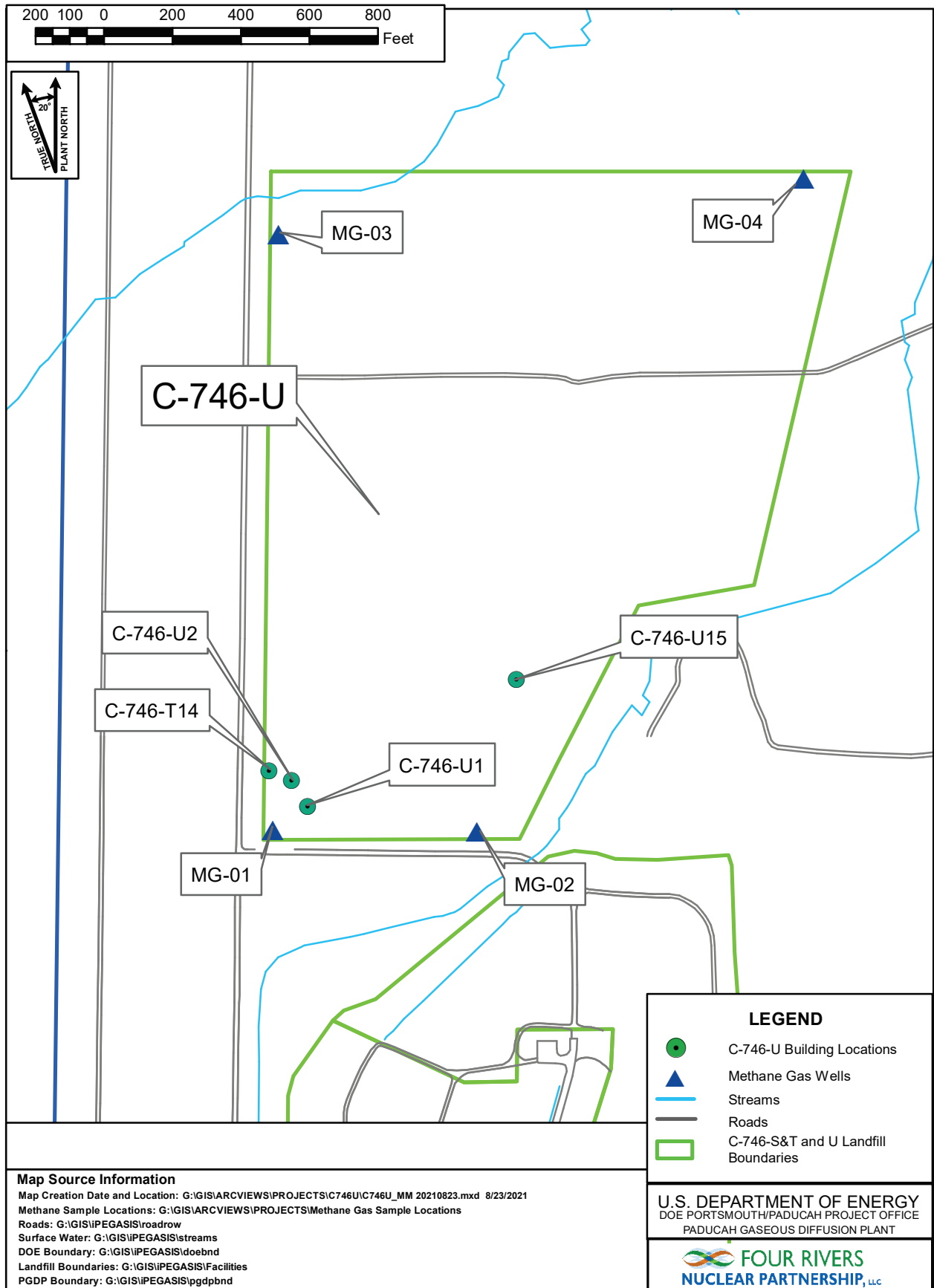


Figure H.1. C-746-U Landfill Methane Monitoring Locations

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:** 4th Quarter 2025
SAMPLE ID: L150DUS1-26 **Sample Type:** FR

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloride		5.93	mg/L	0.2	10/7/2025			EPA-300.0	X
Sulfate		28.1	mg/L	4	10/7/2025			EPA-300.0	X
Iron		0.119	mg/L	0.1	10/7/2025			EPA-200.8	X
Sodium		5.42	mg/L	0.25	10/7/2025			EPA-200.8	X
Uranium		0.000611	mg/L	0.0002	10/7/2025			EPA-200.8	X
Alpha activity	U	-1.75	pCi/L	6.2	10/7/2025	1.51	1.52	SW846-9310	X
Beta activity	U	4.44	pCi/L	10	10/7/2025	5.88	5.92	SW846-9310	X
Dissolved Solids	*	124	mg/L	10	10/7/2025			EPA-160.1	X
Suspended Solids		8	mg/L	2.5	10/7/2025			EPA-160.2	X
Chemical Oxygen Demand (COD)	J	15.3	mg/L	20	10/7/2025			EPA-410.4	X
Total Solids		139	mg/L	10	10/7/2025			SM-2540B	X
Total Organic Carbon (TOC)		5.68	mg/L	1	10/7/2025			SW846-9060A	X

Paducah OREIS
SURFACE WATER MONITORING REPORT

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: L150 INSTREAM **Period:** 4th Quarter 2025
SAMPLE ID: L150US1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloride		5.88	mg/L	0.2	10/7/2025			EPA-300.0	X
Sulfate		28.3	mg/L	0.8	10/7/2025			EPA-300.0	X
Conductivity		221	µmhos/cm		10/7/2025			FS	X
pH		7.95	Std Unit		10/7/2025			FS	X
Iron		0.135	mg/L	0.1	10/7/2025			EPA-200.8	X
Sodium		5.38	mg/L	0.25	10/7/2025			EPA-200.8	X
Uranium		0.000664	mg/L	0.0002	10/7/2025			EPA-200.8	X
Alpha activity	U	0.59	pCi/L	5.72	10/7/2025	2.59	2.59	SW846-9310	X
Beta activity	U	2.96	pCi/L	11.4	10/7/2025	6.44	6.46	SW846-9310	X
Dissolved Solids	*	123	mg/L	10	10/7/2025			EPA-160.1	X
Suspended Solids		10.7	mg/L	2.58	10/7/2025			EPA-160.2	X
Chemical Oxygen Demand (COD)	J	19.8	mg/L	20	10/7/2025			EPA-410.4	X
Total Solids		98	mg/L	10	10/7/2025			SM-2540B	X
Total Organic Carbon (TOC)		5.94	mg/L	1	10/7/2025			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:** 4th Quarter 2025
SAMPLE ID: L154US1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloride		7.65	mg/L	0.2	10/7/2025			EPA-300.0	X
Sulfate		4.66	mg/L	0.4	10/7/2025			EPA-300.0	X
Conductivity		153	µmhos/cm		10/7/2025			FS	X
pH		7.23	Std Unit		10/7/2025			FS	X
Iron		0.655	mg/L	0.1	10/7/2025			EPA-200.8	X
Sodium		5.06	mg/L	0.25	10/7/2025			EPA-200.8	X
Uranium		0.000386	mg/L	0.0002	10/7/2025			EPA-200.8	X
Alpha activity	U	0.104	pCi/L	6.92	10/7/2025	3.01	3.01	SW846-9310	X
Beta activity	U	3.51	pCi/L	10.1	10/7/2025	5.81	5.83	SW846-9310	X
Dissolved Solids	*	82	mg/L	10	10/7/2025			EPA-160.1	X
Suspended Solids	J	4.08	mg/L	5.1	10/7/2025			EPA-160.2	X
Chemical Oxygen Demand (COD)		47.1	mg/L	20	10/7/2025			EPA-410.4	X
Total Solids		101	mg/L	10	10/7/2025			SM-2540B	X
Total Organic Carbon (TOC)		14.4	mg/L	1	10/7/2025			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:** 4th Quarter 2025
SAMPLE ID: L351US1-26 **Sample Type:** REG

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloride		23.3	mg/L	2	10/7/2025			EPA-300.0	X
Sulfate		74.8	mg/L	4	10/7/2025			EPA-300.0	X
Conductivity		647	µmhos/cm		10/7/2025			FS	X
pH		7.5	Std Unit		10/7/2025			FS	X
Iron		0.683	mg/L	0.1	10/7/2025			EPA-200.8	X
Sodium		43.5	mg/L	0.25	10/7/2025			EPA-200.8	X
Uranium		0.0414	mg/L	0.0002	10/7/2025			EPA-200.8	X
Alpha activity		24.8	pCi/L	7.56	10/7/2025	8.72	9.62	SW846-9310	X
Beta activity		45.1	pCi/L	11.7	10/7/2025	10.3	12.7	SW846-9310	X
Dissolved Solids	*	358	mg/L	10	10/7/2025			EPA-160.1	X
Suspended Solids		28.4	mg/L	2.5	10/7/2025			EPA-160.2	X
Chemical Oxygen Demand (COD)		24.4	mg/L	20	10/7/2025			EPA-410.4	X
Total Solids		451	mg/L	10	10/7/2025			SM-2540B	X
Total Organic Carbon (TOC)		8.75	mg/L	1	10/7/2025			SW846-9060A	X

**Paducah OREIS
SURFACE WATER MONITORING REPORT**

Facility: C-746-U Landfill **County:** McCracken **Permit #:** SW07300014,SW07300015,SW07300045
Sampling Point: QC **Period:** 4th Quarter 2025
SAMPLE ID: FB1US1-26 **Sample Type:** FB

Parameter	Qualifier	Result	Units	Reporting Limit	Date Collected	Rad Error (+/-)	TPU	Method	Validation Code
Chloride	U	0.2	mg/L	0.2	10/7/2025			EPA-300.0	X
Sulfate	U	0.4	mg/L	0.4	10/7/2025			EPA-300.0	X
Iron	U	0.1	mg/L	0.1	10/7/2025			EPA-200.8	X
Sodium	U	0.25	mg/L	0.25	10/7/2025			EPA-200.8	X
Uranium	U	0.0002	mg/L	0.0002	10/7/2025			EPA-200.8	X
Alpha activity	U	0.993	pCi/L	5.3	10/7/2025	2.56	2.57	SW846-9310	X
Beta activity	U	-0.0419	pCi/L	9.97	10/7/2025	5.24	5.24	SW846-9310	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

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 II

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,
Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L150DUS1-26
Sample ID: 746293001
Matrix: WS
Collect Date: 07-OCT-25
Receive Date: 08-OCT-25
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														
<i>GFPC, Gross A/B, liquid "As Received"</i>														
Alpha	U	-1.75	+/-1.51	6.20	+/-1.52	15.0	pCi/L			KP1	10/30/25	1043	2889368	1
Beta	U	4.44	+/-5.88	10.0	+/-5.92	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

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Certificate of Analysis

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Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L150US1-26

Sample ID: 746293002

Matrix: WS

Collect Date: 07-OCT-25

Receive Date: 08-OCT-25

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	0.590	+/-2.59	5.72	+/-2.59	15.0	pCi/L			KP1	10/30/25	1043	2889368	1
Beta	U	2.96	+/-6.44	11.4	+/-6.46	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

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Address : LLC
5600 Hobbs Road

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L154US1-26

Sample ID: 746293003

Matrix: WS

Collect Date: 07-OCT-25

Receive Date: 08-OCT-25

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	0.104	+/-3.01	6.92	+/-3.01	15.0	pCi/L			KP1	10/30/25	1043	2889368	1
Beta	U	3.51	+/-5.81	10.1	+/-5.83	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

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L351US1-26

Sample ID: 746293004

Matrix: WS

Collect Date: 07-OCT-25

Receive Date: 08-OCT-25

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		24.8	+/-8.72	7.56	+/-9.62	15.0	pCi/L			KP1	10/30/25	1043	2889368	1
Beta		45.1	+/-10.3	11.7	+/-12.7	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

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

Certificate of Analysis

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

Kevil, Kentucky 42053

Report Date: January 21, 2026

Contact: Ms. Jaime Morrow

Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: FB1US1-26
Sample ID: 746293005
Matrix: WATER
Collect Date: 07-OCT-25
Receive Date: 08-OCT-25
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														
<i>GFPC, Gross A/B, liquid "As Received"</i>														
Alpha	U	0.993	+/-2.56	5.30	+/-2.57	15.0	pCi/L			KP1	10/30/25	1043	2889368	1
Beta	U	-0.0419	+/-5.24	9.97	+/-5.24	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: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L150DUS1-26 Project: FRNP00707
Sample ID: 746293001 Client ID: FRNP007
Matrix: WS
Collect Date: 07-OCT-25 09:17
Receive Date: 08-OCT-25
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		5.68	0.330	1.00	mg/L		1	KB3	10/08/25	2029	2876902	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Sulfate		28.1	1.33	4.00	mg/L		10	CH6	10/08/25	1851	2877456	2
Chloride		5.93	0.0670	0.200	mg/L		1	CH6	10/09/25	0102	2877456	3
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		0.119	0.0330	0.100	mg/L	1.00	1	BB2	10/21/25	1637	2877170	4
Sodium		5.42	0.0800	0.250	mg/L	1.00	1					
Uranium		0.000611	0.0000670	0.000200	mg/L	1.00	1					
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	124	2.38	10.0	mg/L			SC1	10/13/25	1813	2879257	5
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids		8.00	0.570	2.50	mg/L			SC1	10/09/25	0803	2877592	6
SM 2540 B Solids, Total "As Received"												
Total Solids		139	6.29	10.0	mg/L			SC1	10/09/25	1012	2877285	7
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD	J	15.3	8.95	20.0	mg/L		1	BR2	10/14/25	1317	2880013	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	PB1	10/20/25	0905	2877169

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L150DUS1-26

Project: FRNP00707

Sample ID: 746293001

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 300.0											
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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID:	L150US1-26	Project:	FRNP00707
Sample ID:	746293002	Client ID:	FRNP007
Matrix:	WS		
Collect Date:	07-OCT-25 09:17		
Receive Date:	08-OCT-25		
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		5.94	0.330	1.00	mg/L		1	KB3	10/08/25	2206	2876902	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		5.88	0.0670	0.200	mg/L		1	CH6	10/08/25	1923	2877456	2
Sulfate		28.3	0.266	0.800	mg/L		2	CH6	10/09/25	0941	2877456	3
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		0.135	0.0330	0.100	mg/L	1.00	1	BB2	10/21/25	1640	2877170	4
Sodium		5.38	0.0800	0.250	mg/L	1.00	1					
Uranium		0.000664	0.0000670	0.000200	mg/L	1.00	1					
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	123	2.38	10.0	mg/L			SC1	10/13/25	1813	2879257	5
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids		10.7	0.588	2.58	mg/L			SC1	10/09/25	0803	2877592	6
SM 2540 B Solids, Total "As Received"												
Total Solids		98.0	6.29	10.0	mg/L			SC1	10/09/25	1012	2877285	7
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD	J	19.8	8.95	20.0	mg/L		1	BR2	10/14/25	1317	2880013	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	PB1	10/20/25	0905	2877169

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L150US1-26
Sample ID: 746293002

Project: FRNP00707
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 300.0											
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

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L154US1-26 Project: FRNP00707
Sample ID: 746293003 Client ID: FRNP007
Matrix: WS
Collect Date: 07-OCT-25 09:31
Receive Date: 08-OCT-25
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		14.4	0.330	1.00	mg/L		1	KB3	10/08/25	2101	2876902	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		7.65	0.0670	0.200	mg/L		1	CH6	10/08/25	1953	2877456	2
Sulfate		4.66	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		0.655	0.0330	0.100	mg/L	1.00	1	BB2	10/21/25	1657	2877170	3
Sodium		5.06	0.0800	0.250	mg/L	1.00	1					
Uranium		0.000386	0.0000670	0.000200	mg/L	1.00	1					
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	82.0	2.38	10.0	mg/L			SC1	10/13/25	1813	2879257	4
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids	J	4.08	1.16	5.10	mg/L			SC1	10/09/25	1400	2877596	5
SM 2540 B Solids, Total "As Received"												
Total Solids		101	6.29	10.0	mg/L			SC1	10/09/25	1012	2877285	6
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		47.1	8.95	20.0	mg/L		1	BR2	10/14/25	1318	2880013	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	PB1	10/20/25	0905	2877169

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L154US1-26

Project: FRNP00707

Sample ID: 746293003

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Project: Ms. Jaime Morrow
C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L351US1-26 Project: FRNP00707
Sample ID: 746293004 Client ID: FRNP007
Matrix: WS
Collect Date: 07-OCT-25 09:42
Receive Date: 08-OCT-25
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		8.75	0.330	1.00	mg/L		1	KB3	10/08/25	2340	2876902	1
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride		23.3	0.670	2.00	mg/L		10	CH6	10/09/25	1011	2877456	2
Sulfate		74.8	1.33	4.00	mg/L		10					
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron		0.683	0.0330	0.100	mg/L	1.00	1	BB2	10/21/25	1700	2877170	3
Sodium		43.5	0.0800	0.250	mg/L	1.00	1					
Uranium		0.0414	0.0000670	0.000200	mg/L	1.00	1					
Solids Analysis												
EPA 160.1 Solids, Dissolved "As Received"												
Total Dissolved Solids	*	358	2.38	10.0	mg/L			SC1	10/13/25	1813	2879257	4
EPA 160.2 Total Suspended Liq "As Received"												
Total Suspended Solids		28.4	0.570	2.50	mg/L			SC1	10/09/25	1400	2877596	5
SM 2540 B Solids, Total "As Received"												
Total Solids		451	6.29	10.0	mg/L			SC1	10/09/25	1012	2877285	6
Spectrometric Analysis												
EPA 410.4 Chem. Oxygen Demand "As Received"												
COD		24.4	8.95	20.0	mg/L		1	BR2	10/14/25	1318	2880013	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	PB1	10/20/25	0905	2877169

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID: L351US1-26
Sample ID: 746293004

Project: FRNP00707
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

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 21, 2026

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

Contact: Kevil, Kentucky 42053
Ms. Jaime Morrow
Project: C-746-U Landfill Surface Water Quarterly(US26-01)

Client Sample ID:	FB1US1-26	Project:	FRNP00707
Sample ID:	746293005	Client ID:	FRNP007
Matrix:	WATER		
Collect Date:	07-OCT-25 09:18		
Receive Date:	08-OCT-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions (Chloride and Sulfate) "As Received"												
Chloride	U	0.200	0.0670	0.200	mg/L		1	CH6	10/09/25	1042	2877456	1
Sulfate	U	0.400	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
200.8/200.2 MIMICP Metals- Fe Na U "As Received"												
Iron	U	0.100	0.0330	0.100	mg/L	1.00	1	BB2	10/21/25	1703	2877170	2
Sodium	U	0.250	0.0800	0.250	mg/L	1.00	1					
Uranium	U	0.000200	0.0000670	0.000200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 200.2	ICP-MS 200.2 PREP	PB1	10/20/25	0905	2877169

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 200.8	

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 requirement 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 DOEAP 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.

A blue ink signature of Mr. Trace McInturff.

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)						Temperature (°F) Conductivity (µmhos/cm) pH (Std Unit) Dissolved oxygen (mg/L) Turbidity (NTU)					
MW357							MW358					
Date Collected:10/09/2025							Date Collected:10/09/2025					
0911	59.7	433	6.12	5.61	5.85		1021	60.4	470	6.20	4.77	5.49
0916	59.8	431	6.08	5.01	5.20		1026	60.5	469	6.22	4.55	6.08
0921	59.8	430	6.09	4.92	5.40		1031	60.3	470	6.22	4.47	6.00
MW360							MW361					
Date Collected:10/09/2025							Date Collected:10/09/2025					
0647	56.9	390	6.28	4.17	6.12		0737	57.2	479	6.07	5.79	4.57
0652	56.9	389	6.14	2.80	6.00		0742	57.4	480	5.99	5.00	4.44
0657	56.8	389	6.12	2.72	6.10		0747	57.5	481	5.97	4.90	4.35
MW362							MW363					
Date Collected:10/09/2025							Date Collected:10/13/2025					
0821	58.1	634	6.82	4.56	8.50		0637	59.3	358	6.24	4.70	11.06
0826	58.2	639	6.84	4.08	8.70		0642	59.5	357	6.13	2.93	4.96
0831	58.2	640	6.85	4.00	8.77		0647	59.8	357	6.14	2.86	4.78
MW363 Resample							MW364					
Date Collected:10/29/2025							Date Collected:10/13/2025					
0841	57.6	346	6.59	6.06	7.81		0727	60.6	477	6.16	5.01	4.04
0846	57.5	347	6.31	3.49	6.62		0732	60.8	470	6.05	4.53	4.10
0851	57.6	346	6.23	3.40	6.48		0737	60.9	468	6.02	4.44	4.28
MW365							MW365 Resample					
Date Collected:10/13/2025							Date Collected:10/29/2025					
0829	61.5	419	6.39	4.99	3.39		0911	58.4	348	6.31	6.12	4.45
0834	61.6	420	6.34	4.74	3.30		0916	58.6	348	6.21	4.68	4.54
0839	61.5	421	6.32	4.70	3.40		0921	58.6	349	6.20	4.58	4.50
MW366							MW367					
Date Collected:10/13/2025							Date Collected:10/13/2025					
0919	63.3	500	6.18	7.49	2.95		1159	64.9	250	5.97	3.77	8.58
0924	62.8	502	6.12	6.59	3.15		1204	64.8	247	5.94	2.77	9.31
0929	62.8	505	6.09	6.50	3.20		1209	64.8	248	5.94	2.70	9.16
MW367 Resample							MW368					
Date Collected:10/29/2025							Date Collected:10/13/2025					
0946	59.7	263	6.34	8.61	13.69		1307	64.4	564	6.30	2.41	5.07
0951	59.9	253	6.29	7.53	12.00		1312	63.7	569	6.25	1.78	4.54
0956	59.9	251	6.24	7.50	11.46		1317	63.5	570	6.26	1.71	4.68
MW369							MW370					
Date Collected:10/14/2025							Date Collected:10/14/2025					
0635	61.3	364	6.19	5.60	8.70		0725	62.7	437	6.07	5.98	4.08
0640	61.3	361	6.00	4.21	8.94		0730	63.0	438	6.02	5.34	3.67
0645	61.4	360	5.98	4.13	8.57		0735	63.0	438	6.00	5.24	3.55
MW371							MW372					
Date Collected:10/14/2025							Date Collected:10/14/2025					
0827	64.3	677	6.40	4.50	5.39		0913	63.9	803	6.16	2.26	3.96
0832	64.2	688	6.42	3.40	5.76		0918	64.1	804	6.13	2.00	3.72
0837	64.2	690	6.44	3.33	5.55		0923	64.3	803	6.12	1.97	3.55
MW373							MW374					
Date Collected:10/14/2025							Date Collected:10/14/2025					
1003	64.3	1006	6.10	3.30	3.74		1213	68.2	697	6.70	2.77	5.10
1008	64.4	1012	6.05	1.97	3.93		1218	68.4	701	6.68	2.14	5.21
1013	64.4	1015	6.04	1.90	4.04		1223	68.6	703	6.67	2.07	5.18
MW375												
Date Collected:10/14/2025												
1301	65.2	337	6.50	2.11	3.97							
1306	65.2	336	6.45	1.96	4.00							
1311	65.1	336	6.40	1.90	3.96							

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